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(54) Title: LEUKOCYTE EXPRESSION PROFILING

(57) Abstract: Leukocyte gene expression profiling is utilized to identify oligonucleotides from gene expression candidate libraries. The expression libraries are generally immobilized on an array. Diagnostic oligonucleotide sets for analysis of leukocyte-related diseases are described.

## LEUKOCYTE EXPRESSION PROFILING

### Field of the Invention

This invention is in the field of expression profiling. In particular, this invention is in the field of leukocyte expression profiling.

### Background of the Invention

Many of the current shortcomings in diagnosis, prognosis, risk stratification and treatment of disease can be approached through the identification of the molecular mechanisms underlying a disease and through the discovery of nucleotide sequences (or sets of nucleotide sequences) whose expression patterns predict the occurrence or progression of disease states, or predict a patient's response to a particular therapeutic intervention. In particular, identification of nucleotide sequences and sets of nucleotide sequences with such predictive value from cells and tissues that are readily accessible would be extremely valuable. For example, peripheral blood is attainable from all patients and can easily be obtained at multiple time points at low cost. This is a desirable contrast to most other cell and tissue types, which are less readily accessible, or accessible only through invasive and aversive procedures. In addition, the various cell types present in circulating blood are ideal for expression profiling experiments as the many cell types in the blood specimen can be easily separated if desired prior to analysis of gene expression. While blood provides a very attractive substrate for the study of diseases using expression profiling techniques, and for the development of diagnostic technologies and the identification of therapeutic targets, the value of expression profiling in blood samples rests on the degree to which changes in gene expression in these cell types are associated with a predisposition to, and pathogenesis and progression of a disease.

There is an extensive literature supporting the role of leukocytes, e.g., T- and B-lymphocytes, monocytes and granulocytes, including neutrophils, in a wide range of disease processes, including such broad classes as cardiovascular diseases, inflammatory, autoimmune and rheumatic diseases, infectious diseases, transplant rejection, cancer and malignancy, and endocrine diseases. For example, among cardiovascular diseases, such commonly occurring diseases as atherosclerosis, restenosis, transplant vasculopathy and acute coronary syndromes all demonstrate significant T cell involvement (Smith-Norowitz et al. (1999) Clin Immunol 93:168-175; Jude et al. (1994) Circulation 90:1662-8; Belch et al. (1997) Circulation



95:2027-31). These diseases are now recognized as manifestations of chronic inflammatory disorders resulting from an ongoing response to an injury process in the arterial tree (Ross et al. (1999) Ann Thorac Surg 67:1428-33). Differential expression of lymphocyte, monocyte and neutrophil genes and their products has been demonstrated clearly in the literature. Particularly interesting are examples of differential expression in circulating cells of the immune system that demonstrate specificity for a particular disease, such as arteriosclerosis, as opposed to a generalized association with other inflammatory diseases, or for example, with unstable angina rather than quiescent coronary disease.

A number of individual genes, e.g., CD11b/CD18 (Kassirer et al. (1999) Am Heart J 138:555-9); leukocyte elastase (Amaro et al. (1995) Eur Heart J 16:615-22; and CD40L (Aukrust et al. (1999) Circulation 100:614-20) demonstrate some degree of sensitivity and specificity as markers of various vascular diseases. In addition, the identification of differentially expressed target and fingerprint genes isolated from purified populations of monocytes manipulated in various in vitro paradigms has been proposed for the diagnosis and monitoring of a range of cardiovascular diseases, see, e.g., US Patents Numbers 6,048,709; 6,087,477; 6,099,823; and 6,124,433 “COMPOSITIONS AND METHODS FOR THE TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE” to Falb (*see also*, WO 97/30065). Lockhart, in US Patent Number 6,033,860 “EXPRESSION PROFILES IN ADULT AND FETAL ORGANS” proposes the use of expression profiles for a subset of identified genes in the identification of tissue samples, and the monitoring of drug effects.

The accuracy of technologies based on expression profiling for the diagnosis, prognosis, and monitoring of disease would be dramatically increased if numerous differentially expressed nucleotide sequences, each with a measure of specificity for a disease in question, could be identified and assayed in a concerted manner. In order to achieve this improved accuracy, the appropriate sets of nucleotide sequences need to be identified and validated against numerous samples in combination with relevant clinical data. The present invention addresses these and other needs, and applies to any disease or disease state for which differential regulation of genes, or other nucleotide sequences, of peripheral blood can be demonstrated.

#### Summary of the Invention

The present invention is thus directed to a system for detecting differential gene expression. In one format, the system has one or more isolated DNA molecules

wherein each isolated DNA molecule detects expression of a gene selected from the group of genes corresponding to the oligonucleotides depicted in the Sequence Listing. It is understood that the DNA sequences and oligonucleotides of the invention may have slightly different sequences than those identified herein. Such sequence variations are understood to be those of ordinary skill in the art to be variations in the sequence which do not significantly affect the ability of the sequences to detect gene expression.

The sequences encompassed by the invention have at least 40-50, 50-60, 70-80, 80-85, 85-90, 90-95 % or 95-100% sequence identity to the sequences disclosed herein. In some embodiments, DNA molecules are less than about any of the following lengths (in bases or base pairs): 10,000; 5,000; 2500; 2000; 1500; 1250; 1000; 750; 500; 300; 250; 200; 175; 150; 125; 100; 75; 50; 25; 10. In some embodiments, DNA molecule is greater than about any of the following lengths (in bases or base pairs): 10; 15; 20; 25; 30; 40; 50; 60; 75; 100; 125; 150; 175; 200; 250; 300; 350; 400; 500; 750; 1000; 2000; 5000; 7500; 10000; 20000; 50000. Alternately, a DNA molecule can be any of a range of sizes having an upper limit of 10,000; 5,000; 2500; 2000; 1500; 1250; 1000; 750; 500; 300; 250; 200; 175; 150; 125; 100; 75; 50; 25; or 10 and an independently selected lower limit of 10; 15; 20; 25; 30; 40; 50; 60; 75; 100; 125; 150; 175; 200; 250; 300; 350; 400; 500; 750; 1000; 2000; 5000; 7500 wherein the lower limit is less than the upper limit.

The gene expression system may be a candidate library, a diagnostic agent, a diagnostic oligonucleotide set or a diagnostic probe set. The DNA molecules may be genomic DNA, protein nucleic acid (PNA), cDNA or synthetic oligonucleotides.

In one format, the gene expression system is immobilized on an array. The array may be a chip array, a plate array, a bead array, a pin array, a membrane array, a solid surface array, a liquid array, an oligonucleotide array, a polynucleotide array, a cDNA array, a microfilter plate, a membrane or a chip.

In one format, the genes detected by the gene expression system are selected from the group of genes corresponding to the oligonucleotides depicted in SEQ ID NO:2476, SEQ ID NO: 2407, SEQ ID NO:2192, SEQ ID NO: 2283, SEQ ID NO:6025, SEQ ID NO: 4481, SEQ ID NO:3761, SEQ ID NO: 3791, SEQ ID NO:4476, SEQ ID NO: 4398, SEQ ID NO:7401, SEQ ID NO: 1796, SEQ ID NO:4423, SEQ ID NO: 4429, SEQ ID NO:4430, SEQ ID NO: 4767, SEQ ID NO:4829 and SEQ ID NO: 8091.

The present invention is further directed to a diagnostic agent comprising an oligonucleotide wherein the oligonucleotide has a nucleotide sequence selected from the Sequence Listing wherein the oligonucleotide detects expression of a gene that is differentially expressed in leukocytes in an individual over time. In one format, the oligonucleotide has a nucleotide sequence selected from the group consisting of SEQ ID NO:2476, SEQ ID NO: 2407, SEQ ID NO:2192, SEQ ID NO: 2283, SEQ ID NO:6025, SEQ ID NO: 4481, SEQ ID NO:3761, SEQ ID NO: 3791, SEQ ID NO:4476, SEQ ID NO: 4398, SEQ ID NO:7401, SEQ ID NO: 1796, SEQ ID NO:4423, SEQ ID NO: 4429, SEQ ID NO:4430, SEQ ID NO: 4767, SEQ ID NO:4829 and SEQ ID NO: 8091

The present invention is further directed to a system for detecting gene expression in leukocytes comprising an isolated DNA molecule wherein the isolated DNA molecule detects expression of a gene wherein the gene is selected from the group of genes corresponding to the oligonucleotides depicted in the Sequence Listing and the gene is differentially expressed in the leukocytes in an individual with at least one disease criterion for a disease selected from Table 1 as compared to the expression of the gene in leukocytes in an individual without the at least one disease criterion.

The present invention is further directed to a gene expression candidate library comprising at least two oligonucleotides wherein the oligonucleotides have a sequence selected from those oligonucleotide sequences listed in Table 2, Table 3, and the Sequence Listing. Table 3 encompasses Tables 3A, 3B and 3C. The oligonucleotides of the candidate library may comprise deoxyribonucleic acid (DNA), ribonucleic acid (RNA), protein nucleic acid (PNA), synthetic oligonucleotides, or genomic DNA.

In one embodiment, the candidate library is immobilized on an array. The array may comprises one or more of: a chip array, a plate array, a bead array, a pin array, a membrane array, a solid surface array, a liquid array, an oligonucleotide array, a polynucleotide array or a cDNA array, a microtiter plate, a pin array, a bead array, a membrane or a chip. Individual members of the libraries are may be separately immobilized.

The present invention is further directed to a diagnostic oligonucleotide set for a disease having at least two oligonucleotides wherein the oligonucleotides have a sequence selected from those oligonucleotide sequences listed in Table 2, Table 3, or

the Sequence Listing which are differentially expressed in leukocytes genes in an individual with at least one disease criterion for at least one leukocyte-related disease as compared to the expression in leukocytes in an individual without the at least one disease criterion, wherein expression of the two or more genes of the gene expression library is correlated with at least one disease criterion.

The present invention is further directed to a diagnostic oligonucleotide set for a disease having at least one oligonucleotide wherein the oligonucleotide has a sequence selected from those sequences listed in Table 2, Table 3, or the sequence listing which is differentially expressed in leukocytes in an individual with at least one disease criterion for a disease selected from Table 1 as compared to leukocytes in an individual without at least one disease criterion, wherein expression of the at least one gene from the gene expression library is correlated with at least one disease criterion, wherein the differential expression of the at least one gene has not previously been described. In one format, two or more oligonucleotides are utilized.

In the diagnostic oligonucleotide sets of the invention the disease criterion may include data selected from patient historic, diagnostic, prognostic, risk prediction, therapeutic progress, and therapeutic outcome data. This includes lab results, radiology results, pathology results such as histology, cytology and the like, physical examination findings, and medication lists.

In the diagnostic oligonucleotide sets of the invention the leukocytes comprise peripheral blood leukocytes or leukocytes derived from a non-blood fluid. The non-blood fluid may be selected from colon, sinus, spinal fluid, saliva, lymph fluid, esophagus, small bowel, pancreatic duct, biliary tree, ureter, vagina, cervix uterus and pulmonary lavage fluid.

In the diagnostic oligonucleotide sets of the invention the leukocytes may include leukocytes derived from urine or a joint biopsy sample or biopsy of any other tissue or may be T-lymphocytes.

In the diagnostic oligonucleotide sets of the invention the disease may be selected from cardiac allograft rejection, kidney allograft rejection, liver allograft rejection, atherosclerosis, congestive heart failure, systemic lupus erythematosus (SLE), rheumatoid arthritis, osteoarthritis, and cytomegalovirus infection.

The diagnostic oligonucleotide sets of the invention may further include one or more cytomegalovirus (CMV) nucleotide sequences, wherein expression of the CMV nucleotide sequence is correlated with CMV infection.

The diagnostic nucleotide sets of the invention may further include one or more Epstein-Barr virus (EBV) nucleotide sequences, wherein expression of the one or more EBV nucleotide sequences is correlated with EBV infection.

In the present invention, expression may be differential expression, wherein the differential expression is one or more of a relative increase in expression, a relative decrease in expression, presence of expression or absence of expression, presence of disease or absence of disease. The differential expression may be RNA expression or protein expression. The differential expression may be between two or more samples from the same patient taken on separate occasions or between two or more separate patients or between two or more genes relative to each other.

The present invention is further directed to a diagnostic probe set for a disease where the probes correspond to at least one oligonucleotide wherein the oligonucleotides have a sequence such as those listed in Table 2, Table 3, or the Sequence Listing which is differentially expressed in leukocytes in an individual with at least one disease criterion for a disease selected from Table 1 as compared to leukocytes in an individual without the at least one disease criterion, wherein expression of the oligonucleotide is correlated with at least one disease criterion, and further wherein the differential expression of the at least one nucleotide sequence has not previously been described.

The present invention is further directed to a diagnostic probe set wherein the probes include one or more of probes useful for proteomics and probes for nucleic acids cDNA, or synthetic oligonucleotides.

The present invention is further directed to an isolated nucleic acid having a sequences such as those listed in Table 3B or Table 3C or the Sequence Listing.

The present invention is further directed to polypeptides wherein the polypeptides are encoded by the nucleic acid sequences in Tables 3B, 3C and the Sequence Listing.

The present invention is further directed to a polynucleotide expression vector containing the polynucleotide of Tables 3B-3C or the Sequence Listing in operative association with a regulatory element which controls expression of the polynucleotide in a host cell. The present invention is further directed to host cells transformed with the expression vectors of the invention. The host cell may be prokaryotic or eukaryotic.

The present invention is further directed to fusion proteins produced by the host cells of the invention. The present invention is further directed to antibodies directed to the fusion proteins of the invention. The antibodies may be monoclonal or polyclonal antibodies.

The present invention is further directed to kits comprising the diagnostic oligonucleotide sets of the invention. The kits may include instructions for use of the kit.

The present invention is further directed to a method of diagnosing a disease by obtaining a leukocyte sample from an individual, hybridizing nucleic acid derived from the leukocyte sample with a diagnostic oligonucleotide set, and comparing the expression of the diagnostic oligonucleotide set with a molecular signature indicative of the presence or absence of the disease.

The present invention is further directed to a method of detecting gene expression by a) isolating RNA and b) hybridizing the RNA to isolated DNA molecules wherein the isolated DNA molecules detect expression of a gene wherein the gene corresponds to one of the oligonucleotides depicted in the Sequence Listing.

The present invention is further directed to a method of detecting gene expression by a) isolating RNA; b) converting the RNA to nucleic acid derived from the RNA and c) hybridizing the nucleic acid derived from the RNA to isolated DNA molecules wherein the isolated DNA molecules detect expression of a gene wherein the gene corresponds to one of the oligonucleotides depicted in the Sequence Listing. In one format, the nucleic acid derived from the RNA is cDNA.

The present invention is further directed to a method of detecting gene expression by a) isolating RNA; b) converting the RNA to cRNA or aRNA and c) hybridizing the cRNA or aRNA to isolated DNA molecules wherein the isolated DNA molecules detect expression of a gene corresponding to one of the oligonucleotides depicted in the Sequence Listing.

The present invention is further directed to a method of monitoring progression of a disease by obtaining a leukocyte sample from an individual, hybridizing the nucleic acid derived from leukocyte sample with a diagnostic oligonucleotide set, and comparing the expression of the diagnostic oligonucleotide set with a molecular signature indicative of the presence or absence of disease progression.

The present invention is further directed to a method of monitoring the rate of progression of a disease by obtaining a leukocyte sample from an individual, hybridizing the nucleic acid derived from leukocyte sample with a diagnostic oligonucleotide set, and comparing the expression of the diagnostic oligonucleotide set with a molecular signature indicative of the presence or absence of disease progression.

The present invention is further directed to a method of predicting therapeutic outcome by obtaining a leukocyte sample from an individual, hybridizing the nucleic acid derived from leukocyte sample with a diagnostic oligonucleotide set, and comparing the expression of the diagnostic oligonucleotide set with a molecular signature indicative of the predicted therapeutic outcome.

The present invention is further directed to a method of determining prognosis by obtaining a leukocyte sample from an individual, hybridizing the nucleic acid derived from leukocyte sample with a diagnostic oligonucleotide set, and comparing the expression of the diagnostic oligonucleotide set with a molecular signature indicative of the prognosis.

The present invention is further directed to a method of predicting disease complications by obtaining a leukocyte sample from an individual, hybridizing nucleic acid derived from the leukocyte sample with a diagnostic oligonucleotide set, and comparing the expression of the diagnostic oligonucleotide set with a molecular signature indicative of the presence or absence of disease complications.

The present invention is further directed to a method of monitoring response to treatment, by obtaining a leukocyte sample from an individual, hybridizing the nucleic acid derived from leukocyte sample with a diagnostic oligonucleotide set, and comparing the expression of the diagnostic oligonucleotide set with a molecular signature indicative of the presence or absence of response to treatment.

In the methods of the invention the invention may further include characterizing the genotype of the individual, and comparing the genotype of the individual with a diagnostic genotype, wherein the diagnostic genotype is correlated with at least one disease criterion. The genotype may be analyzed by one or more methods selected from the group consisting of Southern analysis, RFLP analysis, PCR, single stranded conformation polymorphism and SNP analysis.

The present invention is further directed to a method of non-invasive imaging by providing an imaging probe for a nucleotide sequence that is differentially

expressed in leukocytes from an individual with at least one disease criterion for at least one leukocyte-implicated disease where leukocytes localize at the site of disease, wherein the expression of the at least one nucleotide sequence is correlated with the at least one disease criterion by (a) contacting the probe with a population of leukocytes; (b) allowing leukocytes to localize to the site of disease or injury and (c) detecting an image.

The present invention is further directed to a control RNA for use in expression profile analysis, where the RNA extracted from the buffy coat samples is from at least four individuals.

The present invention is further directed to a method of collecting expression profiles, comprising comparing the expression profile of an individual with the expression profile of buffy coat control RNA, and analyzing the profile.

The present invention is further directed to a method of RNA preparation suitable for diagnostic expression profiling by obtaining a leukocyte sample from a subject, adding actinomycin-D to a final concentration of 1 ug/ml, adding cycloheximide to a final concentration of 10 ug/ml, and extracting RNA from the leukocyte sample. In the method of RNA preparation of the invention the actinomycin-D and cycloheximide may be present in a sample tube to which the leukocyte sample is added. The method may further include centrifuging the sample at 4°C to separate mononuclear cells.

The present invention is further directed to a leukocyte oligonucleotide set including at least two oligonucleotides which are differentially expressed in leukocytes undergoing adhesion to an endothelium relative to expression in leukocytes not undergoing adhesion to an endothelium, wherein expression of the two oligonucleotides is correlated with the at least one indicator of adhesion state.

The present invention is further directed to a method of identifying at least one diagnostic probe set for assessing atherosclerosis by (a) providing a library of candidate oligonucleotides, which candidate oligonucleotides are differentially expressed in leukocytes which are undergoing adhesion to an endothelium relative to their expression in leukocytes that are not undergoing adhesion to an endothelium; (b) assessing expression of two or more oligonucleotides, which two or more oligonucleotides correspond to components of the library of candidate oligonucleotides, in a subject sample of leukocytes; (c) correlating expression of the two or more oligonucleotides with at least one criterion, which criterion includes one



or more indicators of adhesion to an endothelium; and, (d) recording the molecular signature in a database.

The present invention is further directed to a method of identifying at least one diagnostic probe set for assessing atherosclerosis by (a) providing a library of candidate oligonucleotides, which candidate oligonucleotides are differentially expressed in leukocytes which are undergoing adhesion to an endothelium relative to their expression in leukocytes that are not undergoing adhesion to an endothelium; (b) assessing expression of two or more oligonucleotides, which two or more oligonucleotides correspond to components of the library of candidate nucleotide sequences, in a subject sample of epithelial cells; (c) correlating expression of the two or more nucleotide sequences with at least one criterion, which criterion comprises one or more indicator of adhesion to an endothelium; and (d) recording the molecular signature in a database.

The present invention is further directed to methods of leukocyte expression profiling including methods of analyzing longitudinal clinical and expression data. The rate of change and/or magnitude and direction of change of gene expression can be correlated with disease states and the rate of change of clinical conditions/data and/or the magnitude and direction of changes in clinical data. Correlations may be discovered by examining these expression or clinical changes that are not found in the absence of such changes.

The present invention is further directed to methods of leukocyte profiling for analysis and/or detection of one or more viruses. The virus may be CMV, HIV, hepatitis or other viruses. Both viral and human leukocyte genes can be subjected to expression profiling for these purposes.

#### **Brief Description of the Sequence Listing**

The table below gives a description of the sequence listing. There are 8830 entries. The Sequence Listing presents 50mer oligonucleotide sequences derived from human leukocyte, plant and viral genes. These are listed as SEQ IDs 1-8143. The 50mer sequences and their sources are also displayed in Table 8. Most of these 50mers were designed from sequences of genes in Tables 2, 3A, B and C and the Sequence listing.

SEQ IDs 8144-8766 are the cDNA sequences derived from human leukocytes that were not homologous to UniGene sequences or sequences found in dbEST at the

time they were searched. Some of these sequences match human genomic sequences and are listed in Tables 3B and C. The remaining clones are putative cDNA sequences that contained less than 50% masked nucleotides when submitted to RepeatMasker, were longer than 147 nucleotides, and did not have significant similarity to the UniGene Unique database, dbEST, the NR nucleotide database of Genbank or the assembled human genome of Genbank.

SEQ IDs 8767-8770, 8828-8830 and 8832 are sequences that appear in the text and examples (primer, masked sequences, exemplary sequences, etc.).

SEQ IDs 8771-8827 are CMV PCR primers described in Example 17.

### **Brief Description of the Figures**

**Figure 1:** Figure 1 is a schematic flow chart illustrating a schematic instruction set for characterization of the nucleotide sequence and/or the predicted protein sequence of novel nucleotide sequences.

**Figure 2:** Figure 2 depicts the components of an automated RNA preparation machine.

**Figure 3:** Figure 3 describes kits useful for the practice of the invention. Figure 3A describes the contents of a kit useful for the discovery of diagnostic nucleotide sets. Figure 3B describes the contents of a kit useful for the application of diagnostic nucleotide sets.

**Figure 4** shows the results of six hybridizations on a mini array graphed ( $n=6$  for each column). The error bars are the SEM. This experiment shows that the average signal from AP prepared RNA is 47% of the average signal from GS prepared RNA for both Cy3 and Cy5.

**Figure 5** shows the average background subtracted signal for each of nine leukocyte-specific genes on a mini array. This average is for 3-6 of the above-described hybridizations for each gene. The error bars are the SEM.

**Figure 6** shows the ratio of Cy3 to Cy5 signal for a number of genes. After normalization, this ratio corrects for variability among hybridizations and allows comparison between experiments done at different times. The ratio is calculated as the Cy3 background subtracted signal divided by the Cy5 background subtracted signal. Each bar is the average for 3-6 hybridizations. The error bars are SEM.

**Figure 7** shows data median Cy3 background subtracted signals for control RNAs using mini arrays.

**Figure 8** shows data from an array hybridization.

**Figure 9** shows a comparison of gene expression in samples obtained from cardiac transplant patients with low rejection grade and high rejection grade.

**Figure 10** shows differential gene expression between samples from patients with grade 0 and grade 3A rejection.

#### **Brief Description of the Tables**

**Table 1:** Table 1 lists diseases or conditions amenable to study by leukocyte profiling.

**Table 2:** Table 2 describes genes and other nucleotide sequences identified using data mining of publically available publication databases and nucleotide sequence databases. Corresponding Unigene (build 133) cluster numbers are listed with each gene or other nucleotide sequence.

**Table 3A:** Table 3A describes 48 clones whose sequences align to two or more non-contiguous sequences on the same assembled human contig of genomic sequence. The Accession numbers are from the March 15, 2001 build of the human genome. The file date for the downloaded data was 4/17/01. The alignments of the clone and the contig are indicated in the table. The start and stop offset of each matching region is indicated in the table. The sequence of the clones themselves is included in the sequence listing. The alignments of these clones strongly suggest that they are novel nucleotide sequences. Furthermore, no EST or mRNA aligning to the clone was found in the database. These sequences may prove useful for the prediction of clinical outcomes.

**Table 3B:** Table 3B describes Identified Genomic Regions that code for novel mRNAs. The table contains 591 identified genomic regions that are highly similar to the cDNA clones. Those regions that are within ~100 to 200 Kb of each other on the same contig are likely to represent exons of the same gene. The indicated clone is exemplary of the cDNA clones that match the indicated genomic region. The "number clones" column indicates how many clones were isolated from the libraries that are similar to the indicated region of the chromosome. The probability number is the likelihood that region of similarity would occur by chance on a random sequence. The Accession numbers are from the March 15, 2001 build of the human genome. The file date for the downloaded data was 4/17/01. These sequences may prove useful for the prediction of clinical outcomes.

**Table 3C:** Table 3C describes differentially expressed nucleotide sequences useful for the prediction of clinical outcomes. This table contains 4517 identified cDNAs and cDNA regions of genes that are members of a leukocyte candidate library, for use in measuring the expression of nucleotide sequences that could subsequently be correlated with human clinical conditions. The regions of similarity were found by searching three different databases for pair wise similarity using blastn. The three databases were UniGene Unique build 3/30/01, file Hs.seq.uniq.Z; the downloadable database at ftp.ncbi.nlm.nih.com/blast/db/est human.Z with date 4/8/01 which is a section of Genbank version 122; and the non-redundant section of Genbank ver 123. The Hs.XXXXXX numbers represent UniGene accession numbers from the Hs.seq.uniq.Z file of 3/30/01. The clone sequences are not in the sequence listing.

**Table 4:** Table 4 describes patient groups and diagnostic gene sets

**Table 5:** Table 5 describes the nucleotide sequence databases used in the sequence analysis described herein.

**Table 6:** Table 6 describes the algorithms and software packages used for exon and polypeptide prediction used in the sequence analysis described herein.

**Table 7:** Table 7 describes the databases and algorithms used for the protein sequence analysis described herein.

**Table 8:** Table 8 describes leukocyte probes spotted on the microarrays.

**Table 9:** Table 9 describes Cardiac Transplant patient RNA samples and array hybridizations.

**Table 10:** Table 10 describes differentially expressed probes identified when comparing leukocyte expression profiles obtained from high and low grade cardiac transplant rejection patients.

### **Detailed Description of the Invention**

#### **Definitions**

Unless defined otherwise, all scientific and technical terms are understood to have the same meaning as commonly used in the art to which they pertain. For the purpose of the present invention, the following terms are defined below.

In the context of the invention, the term "gene expression system" refers to any system, device or means to detect gene expression and includes diagnostic agents, candidate libraries, oligonucleotide sets or probe sets.

The term "diagnostic oligonucleotide set" generally refers to a set of two or more oligonucleotides that, when evaluated for differential expression of their products, collectively yields predictive data. Such predictive data typically relates to diagnosis, prognosis, monitoring of therapeutic outcomes, and the like. In general, the components of a diagnostic oligonucleotide set are distinguished from nucleotide sequences that are evaluated by analysis of the DNA to directly determine the genotype of an individual as it correlates with a specified trait or phenotype, such as a disease, in that it is the pattern of expression of the components of the diagnostic nucleotide set, rather than mutation or polymorphism of the DNA sequence that provides predictive value. It will be understood that a particular component (or member) of a diagnostic nucleotide set can, in some cases, also present one or more mutations, or polymorphisms that are amenable to direct genotyping by any of a variety of well known analysis methods, e.g., Southern blotting, RFLP, AFLP, SSCP, SNP, and the like.

A "disease specific target oligonucleotide sequence" is a gene or other oligonucleotide that encodes a polypeptide, most typically a protein, or a subunit of a multi-subunit protein, that is a therapeutic target for a disease, or group of diseases.

A "candidate library" or a "candidate oligonucleotide library" refers to a collection of oligonucleotide sequences (or gene sequences) that by one or more criteria have an increased probability of being associated with a particular disease or group of diseases. The criteria can be, for example, a differential expression pattern in a disease state or in activated or resting leukocytes in vitro as reported in the scientific or technical literature, tissue specific expression as reported in a sequence database, differential expression in a tissue or cell type of interest, or the like. Typically, a candidate library has at least 2 members or components; more typically, the library has in excess of about 10, or about 100, or about 1000, or even more, members or components.

The term "disease criterion" is used herein to designate an indicator of a disease, such as a diagnostic factor, a prognostic factor, a factor indicated by a medical or family history, a genetic factor, or a symptom, as well as an overt or confirmed diagnosis of a disease associated with several indicators such as those selected from the above list. A disease criterion includes data describing a patient's health status, including retrospective or prospective health data, e.g. in the form of the

patient's medical history, laboratory test results, diagnostic test result, clinical events, medications, lists, response(s) to treatment and risk factors, etc.

The terms "molecular signature" or "expression profile" refers to the collection of expression values for a plurality (e.g., at least 2, but frequently about 10, about 100, about 1000, or more) of members of a candidate library. In many cases, the molecular signature represents the expression pattern for all of the nucleotide sequences in a library or array of candidate or diagnostic nucleotide sequences or genes. Alternatively, the molecular signature represents the expression pattern for one or more subsets of the candidate library. The term "oligonucleotide" refers to two or more nucleotides. Nucleotides may be DNA or RNA, naturally occurring or synthetic.

The term "healthy individual," as used herein, is relative to a specified disease or disease criterion. That is, the individual does not exhibit the specified disease criterion or is not diagnosed with the specified disease. It will be understood, that the individual in question, can, of course, exhibit symptoms, or possess various indicator factors for another disease.

Similarly, an "individual diagnosed with a disease" refers to an individual diagnosed with a specified disease (or disease criterion). Such an individual may, or may not, also exhibit a disease criterion associated with, or be diagnosed with another (related or unrelated) disease.

An "array" is a spatially or logically organized collection, e.g., of oligonucleotide sequences or nucleotide sequence products such as RNA or proteins encoded by an oligonucleotide sequence. In some embodiments, an array includes antibodies or other binding reagents specific for products of a candidate library.

When referring to a pattern of expression, a "qualitative" difference in gene expression refers to a difference that is not assigned a relative value. That is, such a difference is designated by an "all or nothing" valuation. Such an all or nothing variation can be, for example, expression above or below a threshold of detection (an on/off pattern of expression). Alternatively, a qualitative difference can refer to expression of different types of expression products, e.g., different alleles (e.g., a mutant or polymorphic allele), variants (including sequence variants as well as post-translationally modified variants), etc.

In contrast, a "quantitative" difference, when referring to a pattern of gene expression, refers to a difference in expression that can be assigned a value on a

graduated scale, (e.g., a 0-5 or 1-10 scale, a + - +++ scale, a grade 1- grade 5 scale, or the like; it will be understood that the numbers selected for illustration are entirely arbitrary and in no-way are meant to be interpreted to limit the invention).

#### ***Gene Expression Systems of the Invention***

The invention is directed to a gene expression system having one or more oligonucleotides wherein the one or more oligonucleotides has a nucleotide sequence which detects expression of a gene corresponding to the oligonucleotides depicted in the Sequence Listing. In one format, the oligonucleotide detects expression of a gene that is differentially expressed in leukocytes. The gene expression system may be a candidate library, a diagnostic agent, a diagnostic oligonucleotide set or a diagnostic probe set. The DNA molecules may be genomic DNA, protein nucleic acid (PNA), cDNA or synthetic oligonucleotides. Following the procedures taught herein, one can identify sequences of interest for analyzing gene expression in leukocytes. Such sequences may be predictive of a disease state.

#### ***Diagnostic oligonucleotides of the invention***

The invention relates to diagnostic nucleotide set(s) comprising members of the leukocyte candidate library listed in Table 2, Table 3 and in the Sequence Listing, for which a correlation exists between the health status of an individual, and the individual's expression of RNA or protein products corresponding to the nucleotide sequence. In some instances, only one oligonucleotide is necessary for such detection. Members of a diagnostic oligonucleotide set may be identified by any means capable of detecting expression of RNA or protein products, including but not limited to differential expression screening, PCR, RT-PCR, SAGE analysis, high-throughput sequencing, microarrays, liquid or other arrays, protein-based methods (e.g., western blotting, proteomics, and other methods described herein), and data mining methods, as further described herein.

In one embodiment, a diagnostic oligonucleotide set comprises at least two oligonucleotide sequences listed in Table 2 or Table 3 or the Sequence Listing which are differentially expressed in leukocytes in an individual with at least one disease criterion for at least one leukocyte-implicated disease relative to the expression in individual without the at least one disease criterion, wherein expression of the two or more nucleotide sequences is correlated with at least one disease criterion, as described below. In another embodiment, a diagnostic nucleotide set comprises

at least one oligonucleotide having an oligonucleotide sequence listed in Table 2 or 3 or the Sequence Listing which is differentially expressed, and further wherein the differential expression/correlation has not previously been described. In some embodiments, the diagnostic nucleotide set is immobilized on an array.

The invention also provides diagnostic probe sets. It is understood that a probe includes any reagent capable of specifically identifying a nucleotide sequence of the diagnostic nucleotide set, including but not limited to a DNA, a RNA, cDNA, synthetic oligonucleotide, partial or full-length nucleic acid sequences. In addition, the probe may identify the protein product of a diagnostic nucleotide sequence, including, for example, antibodies and other affinity reagents. It is also understood that each probe can correspond to one gene, or multiple probes can correspond to one gene, or both, or one probe can correspond to more than one gene.

Homologs and variants of the disclosed nucleic acid molecules may be used in the present invention. Homologs and variants of these nucleic acid molecules will possess a relatively high degree of sequence identity when aligned using standard methods. The sequences encompassed by the invention have at least 40-50, 50-60, 70-80, 80-85, 85-90, 90-95 or 95-100% sequence identity to the sequences disclosed herein.

It is understood that for expression profiling, variations in the disclosed sequences will still permit detection of gene expression. The degree of sequence identity required to detect gene expression varies depending on the length of the oligomer. For a 60 mer, 6-8 random mutations or 6-8 random deletions in a 60 mer do not affect gene expression detection. Hughes, TR, et al, "Expression profiling using microarrays fabricated by an ink-jet oligonucleotide synthesizer. *Nature Biotechnology*, 19:343-347(2001). As the length of the DNA sequence is increased, the number of mutations or deletions permitted while still allowing gene expression detection is increased.

As will be appreciated by those skilled in the art, the sequences of the present invention may contain sequencing errors. That is, there may be incorrect nucleotides, frameshifts, unknown nucleotides, or other types of sequencing errors in any of the sequences; however, the correct sequences will fall within the homology and stringency definitions herein.



The minimum length of an oligonucleotide probe necessary for specific hybridization in the human genome can be estimated using two approaches. The first method uses a statistical argument that the probe will be unique in the human genome by chance. Briefly, the number of independent perfect matches (Po) expected for an oligonucleotide of length L in a genome of complexity C can be calculated from the equation (Laird CD, Chromosoma 32:378 (1971):

$$Po = (1/4)^L * 2C$$

In the case of mammalian genomes,  $2C = \sim 3.6 \times 10^9$ , and an oligonucleotide of 14-15 nucleotides is expected to be represented only once in the genome. However, the distribution of nucleotides in the coding sequence of mammalian genomes is nonrandom (Lathe, R. J. Mol. Biol. 183:1 (1985) and longer oligonucleotides may be preferred in order to increase the specificity of hybridization. In practical terms, this works out to probes that are 19-40 nucleotides long (Sambrook J et al., *infra*). The second method for estimating the length of a specific probe is to use a probe long enough to hybridize under the chosen conditions and use a computer to search for that sequence or close matches to the sequence in the human genome and choose a unique match. Probe sequences are chosen based on the desired hybridization properties as described in Chapter 11 of Sambrook et al, *infra*. The PRIMER3 program is useful for designing these probes (S. Rozen and H. Skaletsky 1996, 1997; Primer3 code available at [http://www-genome.wi.mit.edu/genome\\_software/other/primer3.html](http://www-genome.wi.mit.edu/genome_software/other/primer3.html)). The sequences of these probes are then compared pair wise against a database of the human genome sequences using a program such as BLAST or MEGABLAST (Madden, T.L et al.(1996) Meth. Enzymol. 266:131-141). Since most of the human genome is now contained in the database, the number of matches will be determined. Probe sequences are chosen that are unique to the desired target sequence.

In some embodiments, a diagnostic probe set is immobilized on an array. The array is optionally comprises one or more of: a chip array, a plate array, a bead array, a pin array, a membrane array, a solid surface array, a liquid array, an oligonucleotide array, a polynucleotide array or a cDNA array, a microtiter plate, a pin array, a bead array, a membrane or a chip.

In some embodiments, the leukocyte-implicated disease is selected from the diseases listed in Table 1. In other embodiments, the disease is atherosclerosis or

cardiac allograft rejection. In other embodiments, the disease is congestive heart failure, angina, myocardial infarction, systemic lupus erythematosus (SLE) and rheumatoid arthritis.

### *General Molecular Biology References*

In the context of the invention, nucleic acids and/or proteins are manipulated according to well known molecular biology techniques. Detailed protocols for numerous such procedures are described in, e.g., in Ausubel et al. Current Protocols in Molecular Biology (supplemented through 2000) John Wiley & Sons, New York ("Ausubel"); Sambrook et al. Molecular Cloning - A Laboratory Manual (2nd Ed.), Vol. 1-3, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, 1989 ("Sambrook"), and Berger and Kimmel Guide to Molecular Cloning Techniques, Methods in Enzymology volume 152 Academic Press, Inc., San Diego, CA ("Berger").

In addition to the above references, protocols for in vitro amplification techniques, such as the polymerase chain reaction (PCR), the ligase chain reaction (LCR), Q-replicase amplification, and other RNA polymerase mediated techniques (e.g., NASBA), useful e.g., for amplifying cDNA probes of the invention, are found in Mullis et al. (1987) U.S. Patent No. 4,683,202; PCR Protocols A Guide to Methods and Applications (Innis et al. eds) Academic Press Inc. San Diego, CA (1990) ("Innis"); Arnheim and Levinson (1990) C&EN 36; The Journal Of NIH Research (1991) 3:81; Kwoh et al. (1989) Proc Natl Acad Sci USA 86, 1173; Guatelli et al. (1990) Proc Natl Acad Sci USA 87:1874; Lomell et al. (1989) J Clin Chem 35:1826; Landegren et al. (1988) Science 241:1077; Van Brunt (1990) Biotechnology 8:291; Wu and Wallace (1989) Gene 4: 560; Barringer et al. (1990) Gene 89:117, and Sooknanan and Malek (1995) Biotechnology 13:563. Additional methods, useful for cloning nucleic acids in the context of the present invention, include Wallace et al. U.S. Pat. No. 5,426,039. Improved methods of amplifying large nucleic acids by PCR are summarized in Cheng et al. (1994) Nature 369:684 and the references therein.

Certain polynucleotides of the invention, e.g., oligonucleotides can be synthesized utilizing various solid-phase strategies involving mononucleotide- and/or trinucleotide-based phosphoramidite coupling chemistry. For example, nucleic acid sequences can be synthesized by the sequential addition of activated monomers and/or

trimers to an elongating polynucleotide chain. See e.g., Caruthers, M.H. et al. (1992) Meth Enzymol 211:3.

In lieu of synthesizing the desired sequences, essentially any nucleic acid can be custom ordered from any of a variety of commercial sources, such as The Midland Certified Reagent Company (mcrc@oligos.com), The Great American Gene Company (www.genco.com), ExpressGen, Inc. (www.expressgen.com), Operon Technologies, Inc. (www.operon.com), and many others.

Similarly, commercial sources for nucleic acid and protein microarrays are available, and include, e.g., Agilent Technologies, Palo Alto, CA (<http://www.agilent.com/>) Affymetrix, Santa Clara, CA (<http://www.affymetrix.com/>); and Incyte, Palo Alto, CA (<http://www.incyte.com/>) and others.

### *Identification of diagnostic nucleotide sets*

#### Candidate library

Libraries of candidates that are differentially expressed in leukocytes are substrates for the identification and evaluation of diagnostic oligonucleotide sets and disease specific target nucleotide sequences.

The term leukocyte is used generically to refer to any nucleated blood cell that is not a nucleated erythrocyte. More specifically, leukocytes can be subdivided into two broad classes. The first class includes granulocytes, including, most prevalently, neutrophils, as well as eosinophils and basophils at low frequency. The second class, the non-granular or mononuclear leukocytes, includes monocytes and lymphocytes (e.g., T cells and B cells). There is an extensive literature in the art implicating leukocytes, e.g., neutrophils, monocytes and lymphocytes in a wide variety of disease processes, including inflammatory and rheumatic diseases, neurodegenerative diseases (such as Alzheimer's dementia), cardiovascular disease, endocrine diseases, transplant rejection, malignancy and infectious diseases, and other diseases listed in Table 1. Mononuclear cells are involved in the chronic immune response, while granulocytes, which make up approximately 60% of the leukocytes, have a non-specific and stereotyped response to acute inflammatory stimuli and often have a life span of only 24 hours.

In addition to their widespread involvement and/or implication in numerous disease related processes, leukocytes are particularly attractive substrates for clinical and experimental evaluation for a variety of reasons. Most importantly, they are

readily accessible at low cost from essentially every potential subject. Collection is minimally invasive and associated with little pain, disability or recovery time. Collection can be performed by minimally trained personnel (e.g., phlebotomists, medical technicians, etc.) in a variety of clinical and non-clinical settings without significant technological expenditure. Additionally, leukocytes are renewable, and thus available at multiple time points for a single subject.

#### Assembly of candidate libraries

At least two conceptually distinct approaches to the assembly of candidate libraries exist. Either, or both, or other, approaches can be favorably employed. The method of assembling, or identifying, candidate libraries is secondary to the criteria utilized for selecting appropriate library members. Most importantly, library members are assembled based on differential expression of RNA or protein products in leukocyte populations. More specifically, candidate nucleotide sequences are induced or suppressed, or expressed at increased or decreased levels in leukocytes from a subject with one or more disease or disease state (a disease criterion) relative to leukocytes from a subject lacking the specified disease criterion. Alternatively, or in addition, library members can be assembled from among nucleotide sequences that are differentially expressed in activated or resting leukocytes relative to other cell types.

Firstly, publication and sequence databases can be "mined" using a variety of search strategies, including, e.g., a variety of genomics and proteomics approaches. For example, currently available scientific and medical publication databases such as Medline, Current Contents, OMIM (online Mendelian inheritance in man) various Biological and Chemical Abstracts, Journal indexes, and the like can be searched using term or key-word searches, or by author, title, or other relevant search parameters. Many such databases are publicly available, and one of skill is well versed in strategies and procedures for identifying publications and their contents, e.g., genes, other nucleotide sequences, descriptions, indications, expression pattern, etc. Numerous databases are available through the internet for free or by subscription, *see*, e.g., <http://www.ncbi.nlm.nih.gov/PubMed/>; <http://www3.infotrieve.com/>; <http://www.isinet.com/>; <http://www.sciencemag.org/>. Additional or alternative publication or citation databases are also available that provide identical or similar types of information, any of which are favorably employed in the context of the invention. These databases can be searched for publications describing differential

gene expression in leukocytes between patient with and without diseases or conditions listed in Table 1. We identified the nucleotide sequences listed in Table 2 and some of the sequences listed in Table 8 (Example 20), using data mining methods.

Alternatively, a variety of publicly available and proprietary sequence databases (including GenBank, dbEST, UniGene, and TIGR and SAGE databases) including sequences corresponding to expressed nucleotide sequences, such as expressed sequence tags (ESTs) are available. For example, Genbank™ (<http://www.ncbi.nlm.nih.gov/Genbank/>) among others can be readily accessed and searched via the internet. These and other sequence and clone database resources are currently available; however, any number of additional or alternative databases comprising nucleotide sequence sequences, EST sequences, clone repositories, PCR primer sequences, and the like corresponding to individual nucleotide sequence sequences are also suitable for the purposes of the invention. Sequences from nucleotide sequences can be identified that are only found in libraries derived from leukocytes or sub-populations of leukocytes, for example see Table 2.

Alternatively, the representation, or relative frequency, of a nucleotide sequence may be determined in a leukocyte-derived nucleic acid library and compared to the representation of the sequence in non-leukocyte derived libraries. The representation of a nucleotide sequence correlates with the relative expression level of the nucleotide sequence in leukocytes and non-leukocytes. An oligonucleotide sequence which has increased or decreased representation in a leukocyte-derived nucleic acid library relative to a non-leukocyte-derived libraries is a candidate for a leukocyte-specific gene.

Nucleotide sequences identified as having specificity to activated or resting leukocytes or to leukocytes from patients or patient samples with a variety of disease types can be isolated for use in a candidate library for leukocyte expression profiling through a variety of mechanisms. These include, but are not limited to, the amplification of the nucleotide sequence from RNA or DNA using nucleotide sequence specific primers for PCR or RT-PCR, isolation of the nucleotide sequence using conventional cloning methods, the purchase of an IMAGE consortium cDNA clone (EST) with complimentary sequence or from the same expressed nucleotide sequence, design of oligonucleotides, preparation of synthetic nucleic acid sequence, or any other nucleic-acid based method. In addition, the protein product of the

nucleotide sequence can be isolated or prepared, and represented in a candidate library, using standard methods in the art, as described further below.

While the above discussion related primarily to “genomics” approaches, it is appreciated that numerous, analogous “proteomics” approaches are suitable to the present invention. For example, a differentially expressed protein product can, for example, be detected using western analysis, two-dimensional gel analysis, chromatographic separation, mass spectrometric detection, protein-fusion reporter constructs, colorimetric assays, binding to a protein array, or by characterization of polysomal mRNA. The protein is further characterized and the nucleotide sequence encoding the protein is identified using standard techniques, e.g. by screening a cDNA library using a probe based on protein sequence information.

The second approach involves the construction of a differential expression library by any of a variety of means. Any one or more of differential screening, differential display or subtractive hybridization procedures, or other techniques that preferentially identify, isolate or amplify differentially expressed nucleotide sequences can be employed to produce a library of differentially expressed candidate nucleotide sequences, a subset of such a library, a partial library, or the like. Such methods are well known in the art. For example, peripheral blood leukocytes, (i.e., a mixed population including lymphocytes, monocytes and neutrophils), from multiple donor samples are pooled to prevent bias due to a single-donor’s unique genotype. The pooled leukocytes are cultured in standard medium and stimulated with individual cytokines or growth factors e.g., with IL-2, IL-1, MCP1, TNF $\alpha$ , and/or IL8 according to well known procedures (*see*, e.g., Tough et al. (1999) ; Winston et al. (1999); Hansson et al. (1989) ). Typically, leukocytes are recovered from Buffy coat preparations produced by centrifugation of whole blood. Alternatively, mononuclear cells (monocytes and lymphocytes) can be obtained by density gradient centrifugation of whole blood, or specific cell types (such as a T lymphocyte) can be isolated using affinity reagents to cell specific surface markers. Leukocytes may also be stimulated by incubation with ionomycin, and phorbol myristate acetate (PMA). This stimulation protocol is intended to non-specifically mimic “activation” of numerous pathways due to variety of disease conditions rather than to simulate any single disease condition or paradigm.

Using well known subtractive hybridization procedures (as described in, e.g., US Patent Numbers 5,958,738; 5,589,339; 5,827,658; 5,712,127; 5,643,761) a library

is produced that is enriched for RNA species (messages) that are differentially expressed between test and control leukocyte populations. In some embodiments, the test population of leukocytes are simply stimulated as described above to emulate non-specific activation events, while in other embodiments the test population can be selected from subjects (or patients) with a specified disease or class of diseases. Typically, the control leukocyte population lacks the defining test condition, e.g., stimulation, disease state, diagnosis, genotype, etc. Alternatively, the total RNA from control and test leukocyte populations are prepared by established techniques, treated with DNaseI, and selected for messenger RNA with an intact 3' end (i.e., polyA(+)) messenger RNA) e.g., using commercially available kits according to the manufacturer's instructions e.g. Clontech. Double stranded cDNA is synthesized utilizing reverse transcriptase. Double stranded cDNA is then cut with a first restriction enzyme (e.g., *NlaIII*, that cuts at the recognition site: CATG, and cuts the cDNA sequence at approximately 256 bp intervals) that cuts the cDNA molecules into conveniently sized fragments.

The cDNAs prepared from the test population of leukocytes are divided into (typically 2) "tester" pools, while cDNAs prepared from the control population of leukocytes are designated the "driver" pool. Typically, pooled populations of cells from multiple individual donors are utilized and in the case of stimulated versus unstimulated cells, the corresponding tester and driver pools for any single subtraction reaction are derived from the same donor pool.

A unique double-stranded adapter is ligated to each of the tester cDNA populations using unphosphorylated primers so that only the sense strand is covalently linked to the adapter. An initial hybridization is performed consisting of each of the tester pools of cDNA (each with its corresponding adapter) and an excess of the driver cDNA. Typically, an excess of about 10-100 fold driver relative to tester is employed, although significantly lower or higher ratios can be empirically determined to provide more favorable results. The initial hybridization results in an initial normalization of the cDNAs such that high and low abundance messages become more equally represented following hybridization due to a failure of driver/tester hybrids to amplify.

A second hybridization involves pooling un-hybridized sequences from initial hybridizations together with the addition of supplemental driver cDNA. In this step, the expressed sequences enriched in the two tester pools following the initial

hybridization can hybridize. Hybrids resulting from the hybridization between members of each of the two tester pools are then recovered by amplification in a polymerase chain reaction (PCR) using primers specific for the unique adapters. Again, sequences originating in a tester pool that form hybrids with components of the driver pool are not amplified. Hybrids resulting between members of the same tester pool are eliminated by the formation of "panhandles" between their common 5' and 3' ends. For additional details, see, e.g., Lukyanov et al. (1997) Biochem Biophys Res Commun 230:285-8.

Typically, the tester and driver pools are designated in the alternative, such that the hybridization is performed in both directions to ensure recovery of messenger RNAs that are differentially expressed in either a positive or negative manner (i.e., that are turned on or turned off, up-regulated or down-regulated). Accordingly, it will be understood that the designation of test and control populations is to some extent arbitrary, and that a test population can just as easily be compared to leukocytes derived from a patient with the same of another disease of interest.

If so desired, the efficacy of the process can be assessed by such techniques as semi-quantitative PCR of known (i.e., control) nucleotide sequences, of varying abundance such as  $\beta$ -actin. The resulting PCR products representing partial cDNAs of differentially expressed nucleotide sequences are then cloned (i.e., ligated) into an appropriate vector (e.g., a commercially available TA cloning vector, such as pGEM from Promega) and, optionally, transformed into competent bacteria for selection and screening.

Either of the above approaches, or both in combination, or indeed, any procedure, which permits the assembly of a collection of nucleotide sequences that are expressed in leukocytes, is favorably employed to produce the libraries of candidates useful for the identification of diagnostic nucleotide sets and disease specific target nucleotides of the invention. Additionally, any method that permits the assembly of a collection of nucleotides that are expressed in leukocytes and preferentially associated with one or more disease or condition, whether or not the nucleotide sequences are differentially expressed, is favorably employed in the context of the invention. Typically, libraries of about 2,000-10,000 members are produced (although libraries in excess of 10,000 are not uncommon). Following additional evaluation procedures, as described below, the proportion of unique clones in the candidate library can approximate 100%.



A candidate oligonucleotide sequence may be represented in a candidate library by a full-length or partial nucleic acid sequence, deoxyribonucleic acid (DNA) sequence, cDNA sequence, RNA sequence, synthetic oligonucleotides, etc. The nucleic acid sequence can be at least 19 nucleotides in length, at least 25 nucleotides, at least 40 nucleotides, at least 100 nucleotides, or larger. Alternatively, the protein product of a candidate nucleotide sequence may be represented in a candidate library using standard methods, as further described below.

#### Characterization of candidate oligonucleotide sequences

The sequence of individual members (e.g., clones, partial sequence listing in a database such as an EST, etc.) of the candidate oligonucleotide libraries is then determined by conventional sequencing methods well known in the art, e.g., by the dideoxy-chain termination method of Sanger et al. (1977) Proc Natl Acad Sci USA 74:5463-7; by chemical procedures, e.g., Maxam and Gilbert (1977) Proc Natl Acad Sci USA 74:560-4; or by polymerase chain reaction cycle sequencing methods, e.g., Olsen and Eckstein (1989) Nuc Acid Res 17:9613-20, DNA chip based sequencing techniques or variations, including automated variations (e.g., as described in Hunkapiller et al. (1991) Science 254:59-67; Pease et al. (1994) Proc Natl Acad Sci USA 91:5022-6), thereof. Numerous kits for performing the above procedures are commercially available and well known to those of skill in the art. Character strings corresponding to the resulting nucleotide sequences are then recorded (i.e., stored) in a database. Most commonly the character strings are recorded on a computer readable medium for processing by a computational device.

Generally, to facilitate subsequent analysis, a custom algorithm is employed to query existing databases in an ongoing fashion, to determine the identity, expression pattern and potential function of the particular members of a candidate library. The sequence is first processed, by removing low quality sequence. Next the vector sequences are identified and removed and sequence repeats are identified and masked. The remaining sequence is then used in a Blast algorithm against multiple publicly available, and/or proprietary databases, e.g., NCBI nucleotide, EST and protein databases, Unigene, and Human Genome Sequence. Sequences are also compared to all previously sequenced members of the candidate libraries to detect redundancy.

In some cases, sequences are of high quality, but do not match any sequence in the NCBI nr, human EST or Unigene databases. In this case the sequence is queried against the human genomic sequence. If a single chromosomal site is matched with a

high degree of confidence, that region of genomic DNA is identified and subjected to further analysis with a gene prediction program such as GRAIL. This analysis may lead to the identification of a new gene in the genomic sequence. This sequence can then be translated to identify the protein sequence that is encoded and that sequence can be further analyzed using tools such as Pfam, Blast P, or other protein structure prediction programs, as illustrated in Table 7. Typically, the above analysis is directed towards the identification of putative coding regions, e.g., previously unidentified open reading frames, confirming the presence of known coding sequences, and determining structural motifs or sequence similarities of the predicted protein (i.e., the conceptual translation product) in relation to known sequences. In addition, it has become increasingly possible to assemble "virtual cDNAs" containing large portions of coding region, simply through the assembly of available expressed sequence tags (ESTs). In turn, these extended nucleic acid and amino acid sequences allow the rapid expansion of substrate sequences for homology searches and structural and functional motif characterization. The results of these analysis permits the categorization of sequences according to structural characteristics, e.g., as structural proteins, proteins involved in signal transduction, cell surface or secreted proteins etc.

It is understood that full-length nucleotide sequences may also be identified using conventional methods, for example, library screening, RT-PCR, chromosome walking, etc., as described in *Sambrook and Ausebel, infra*.

#### ***Candidate nucleotide library of the invention***

We identified members of a candidate nucleotide library that are differentially expressed in activated leukocytes and resting leukocytes. Accordingly, the invention provides the candidate leukocyte nucleotide library comprising the nucleotide sequences listed in Table 2, Table 3 and in the sequence listing. In another embodiment, the invention provides a candidate library comprising at least two nucleotide sequences listed in Table 2, Table 3, and the sequence listing. In another embodiment, the at least two nucleotide sequence are at least 19 nucleotides in length, at least 35 nucleotides, at least 40 nucleotides or at least 100 nucleotides. In some embodiments, the nucleotide sequences comprises deoxyribonucleic acid (DNA) sequence, ribonucleic acid (RNA) sequence, synthetic oligonucleotide sequence, or genomic DNA sequence. It is understood that the nucleotide sequences may each

correspond to one gene, or that several nucleotide sequences may correspond to one gene, or both.

The invention also provides probes to the candidate nucleotide library. In one embodiment of the invention, the probes comprise at least two nucleotide sequences listed in Table 2, Table 3, or the sequence listing which are differentially expressed in leukocytes in an individual with a least one disease criterion for at least one leukocyte-related disease and in leukocytes in an individual without the at least one disease criterion, wherein expression of the two or more nucleotide sequences is correlated with at least one disease criterion. It is understood that a probe may detect either the RNA expression or protein product expression of the candidate nucleotide library. Alternatively, or in addition, a probe can detect a genotype associated with a candidate nucleotide sequence, as further described below. In another embodiment, the probes for the candidate nucleotide library are immobilized on an array.

The candidate nucleotide library of the invention is useful in identifying diagnostic nucleotide sets of the invention, as described below. The candidate nucleotide sequences may be further characterized, and may be identified as a disease target nucleotide sequence and/or a novel nucleotide sequence, as described below. The candidate nucleotide sequences may also be suitable for use as imaging reagents, as described below.

### *Generation of Expression Patterns*

#### RNA, DNA or protein sample procurement

Following identification or assembly of a library of differentially expressed candidate nucleotide sequences, leukocyte expression profiles corresponding to multiple members of the candidate library are obtained. Leukocyte samples from one or more subjects are obtained by standard methods. Most typically, these methods involve trans-cutaneous venous sampling of peripheral blood. While sampling of circulating leukocytes from whole blood from the peripheral vasculature is generally the simplest, least invasive, and lowest cost alternative, it will be appreciated that numerous alternative sampling procedures exist, and are favorably employed in some circumstances. No pertinent distinction exists, in fact, between leukocytes sampled from the peripheral vasculature, and those obtained, e.g., from a central line, from a central artery, or indeed from a cardiac catheter, or during a surgical procedure which accesses the central vasculature. In addition, other body fluids and tissues that are, at

least in part, composed of leukocytes are also desirable leukocyte samples. For example, fluid samples obtained from the lung during bronchoscopy may be rich in leukocytes, and amenable to expression profiling in the context of the invention, e.g., for the diagnosis, prognosis, or monitoring of lung transplant rejection, inflammatory lung diseases or infectious lung disease. Fluid samples from other tissues, e.g., obtained by endoscopy of the colon, sinuses, esophagus, stomach, small bowel, pancreatic duct, biliary tree, bladder, ureter, vagina, cervix or uterus, etc., are also suitable. Samples may also be obtained other sources containing leukocytes, e.g., from urine, bile, cerebrospinal fluid, feces, gastric or intestinal secretions, semen, or solid organ or joint biopsies.

Most frequently, mixed populations of leukocytes, such as are found in whole blood are utilized in the methods of the present invention. A crude separation, e.g., of mixed leukocytes from red blood cells, and/or concentration, e.g., over a sucrose, percoll or ficoll gradient, or by other methods known in the art, can be employed to facilitate the recovery of RNA or protein expression products at sufficient concentrations, and to reduce non-specific background. In some instances, it can be desirable to purify sub-populations of leukocytes, and methods for doing so, such as density or affinity gradients, flow cytometry, fluorescence Activated Cell Sorting (FACS), immuno-magnetic separation, "panning," and the like, are described in the available literature and below.

#### ***Obtaining DNA, RNA and protein samples for expression profiling***

Expression patterns can be evaluated at the level of DNA, or RNA or protein products. For example, a variety of techniques are available for the isolation of RNA from whole blood. Any technique that allows isolation of mRNA from cells (in the presence or absence of rRNA and tRNA) can be utilized. In brief, one method that allows reliable isolation of total RNA suitable for subsequent gene expression analysis, is described as follows. Peripheral blood (either venous or arterial) is drawn from a subject, into one or more sterile, endotoxin free, tubes containing an anticoagulant (e.g., EDTA, citrate, heparin, etc.). Typically, the sample is divided into at least two portions. One portion, e.g., of 5-8 ml of whole blood is frozen and stored for future analysis, e.g., of DNA or protein. A second portion, e.g., of approximately 8 ml whole blood is processed for isolation of total RNA by any of a

variety of techniques as described in, e.g., Sambrook, Ausubel, below, as well as U.S. Patent Numbers: 5,728,822 and 4,843,155.

Typically, a subject sample of mononuclear leukocytes obtained from about 8 ml of whole blood, a quantity readily available from an adult human subject under most circumstances, yields 5-20 µg of total RNA. This amount is ample, e.g., for labeling and hybridization to at least two probe arrays. Labeled probes for analysis of expression patterns of nucleotides of the candidate libraries are prepared from the subject's sample of RNA using standard methods. In many cases, cDNA is synthesized from total RNA using a polyT primer and labeled, e.g., radioactive or fluorescent, nucleotides. The resulting labeled cDNA is then hybridized to probes corresponding to members of the candidate nucleotide library, and expression data is obtained for each nucleotide sequence in the library. RNA isolated from subject samples (e.g., peripheral blood leukocytes, or leukocytes obtained from other biological fluids and samples) is next used for analysis of expression patterns of nucleotides of the candidate libraries.

In some cases, however, the amount of RNA that is extracted from the leukocyte sample is limiting, and amplification of the RNA is desirable. Amplification may be accomplished by increasing the efficiency of probe labeling, or by amplifying the RNA sample prior to labeling. It is appreciated that care must be taken to select an amplification procedure that does not introduce any bias (with respect to gene expression levels) during the amplification process.

Several methods are available that increase the signal from limiting amounts of RNA, e.g. use of the Clontech (Glass Fluorescent Labeling Kit) or Stratagene (Fairplay Microarray Labeling Kit), or the Micromax kit (New England Nuclear, Inc.). Alternatively, cDNA is synthesized from RNA using a T7- polyT primer, in the absence of label, and DNA dendrimers from Genisphere (3DNA Submicro) are hybridized to the polyT sequence on the primer, or to a different "capture sequence" which is complementary to a fluorescently labeled sequence. Each 3DNA molecule has 250 fluorescent molecules and therefore can strongly label each cDNA.

Alternatively, the RNA sample is amplified prior to labeling. For example, linear amplification may be performed, as described in U.S. Patent No. 6,132,997. A T7-polyT primer is used to generate the cDNA copy of the RNA. A second DNA strand is then made to complete the substrate for amplification. The T7 promoter

incorporated into the primer is used by a T7 polymerase to produce numerous antisense copies of the original RNA. Fluorescent dye labeled nucleotides are directly incorporated into the RNA. Alternatively, amino allyl labeled nucleotides are incorporated into the RNA, and then fluorescent dyes are chemically coupled to the amino allyl groups, as described in Hughes. Other exemplary methods for amplification are described below.

It is appreciated that the RNA isolated must contain RNA derived from leukocytes, but may also contain RNA from other cell types to a variable degree. Additionally, the isolated RNA may come from subsets of leukocytes, e.g. monocytes and/or T-lymphocytes, as described above. Such consideration of cell type used for the derivation of RNA depend on the method of expression profiling used.

DNA samples may be obtained for analysis of the presence of DNA mutations, single nucleotide polymorphisms (SNPs), or other polymorphisms. DNA is isolated using standard techniques, e.g. *Maniatus, supra*.

Expression of products of candidate nucleotides may also be assessed using proteomics. Protein(s) are detected in samples of patient serum or from leukocyte cellular protein. Serum is prepared by centrifugation of whole blood, using standard methods. Proteins present in the serum may have been produced from any of a variety of leukocytes and non-leukocyte cells, and include secreted proteins from leukocytes. Alternatively, leukocytes or a desired sub-population of leukocytes are prepared as described above. Cellular protein is prepared from leukocyte samples using methods well known in the art, e.g., Trizol (Invitrogen Life Technologies, cat # 15596108; Chomczynski, P. and Sacchi, N. (1987) *Anal. Biochem.* 162, 156; Simms, D., Cizdziel, P.E., and Chomczynski, P. (1993) *Focus®* 15, 99; Chomczynski, P., Bowers-Finn, R., and Sabatini, L. (1987) *J. of NIH Res.* 6, 83; Chomczynski, P. (1993) *Bio/Techniques* 15, 532; Bracete, A.M., Fox, D.K., and Simms, D. (1998) *Focus* 20, 82; Sewall, A. and McRae, S. (1998) *Focus* 20, 36; *Anal Biochem* 1984 Apr;138(1):141-3, A method for the quantitative recovery of protein in dilute solution in the presence of detergents and lipids; Wessel D, Flugge UI. (1984) *Anal Biochem.* 1984 Apr;138(1):141-143.

#### Obtaining expression patterns

Expression patterns, or profiles, of a plurality of nucleotides corresponding to members of the candidate library are then evaluated in one or more samples of leukocytes. Typically, the leukocytes are derived from patient peripheral blood

samples, although, as indicated above, many other sample sources are also suitable. These expression patterns constitute a set of relative or absolute expression values for a some number of RNAs or protein products corresponding to the plurality of nucleotide sequences evaluated, which is referred to herein as the subject's "expression profile" for those nucleotide sequences. While expression patterns for as few as one independent member of the candidate library can be obtained, it is generally preferable to obtain expression patterns corresponding to a larger number of nucleotide sequences, e.g., about 2, about 5, about 10, about 20, about 50, about 100, about 200, about 500, or about 1000, or more. The expression pattern for each differentially expressed component member of the library provides a finite specificity and sensitivity with respect to predictive value, e.g., for diagnosis, prognosis, monitoring, and the like.

#### ***Clinical Studies, Data and Patient Groups***

For the purpose of discussion, the term subject, or subject sample of leukocytes, refers to an individual regardless of health and/or disease status. A subject can be a patient, a study participant, a control subject, a screening subject, or any other class of individual from whom a leukocyte sample is obtained and assessed in the context of the invention. Accordingly, a subject can be diagnosed with a disease, can present with one or more symptom of a disease, or a predisposing factor, such as a family (genetic) or medical history (medical) factor, for a disease, or the like. Alternatively, a subject can be healthy with respect to any of the aforementioned factors or criteria. It will be appreciated that the term "healthy" as used herein, is relative to a specified disease, or disease factor, or disease criterion, as the term "healthy" cannot be defined to correspond to any absolute evaluation or status. Thus, an individual defined as healthy with reference to any specified disease or disease criterion, can in fact be diagnosed with any other one or more disease, or exhibit any other one or more disease criterion.

Furthermore, while the discussion of the invention focuses, and is exemplified using human sequences and samples, the invention is equally applicable, through construction or selection of appropriate candidate libraries, to non-human animals, such as laboratory animals, e.g., mice, rats, guinea pigs, rabbits; domesticated livestock, e.g., cows, horses, goats, sheep, chicken, etc.; and companion animals, e.g., dogs, cats, etc.

*Methods for obtaining expression data*

Numerous methods for obtaining expression data are known, and any one or more of these techniques, singly or in combination, are suitable for determining expression profiles in the context of the present invention. For example, expression patterns can be evaluated by northern analysis, PCR, RT-PCR, Taq Man analysis, FRET detection, monitoring one or more molecular beacon, hybridization to an oligonucleotide array, hybridization to a cDNA array, hybridization to a polynucleotide array, hybridization to a liquid microarray, hybridization to a microelectric array, molecular beacons, cDNA sequencing, clone hybridization, cDNA fragment fingerprinting, serial analysis of gene expression (SAGE), subtractive hybridization, differential display and/or differential screening (*see, e.g.,* Lockhart and Winzeler (2000) *Nature* 405:827-836, and references cited therein).

For example, specific PCR primers are designed to a member(s) of a candidate nucleotide library. cDNA is prepared from subject sample RNA by reverse transcription from a poly-dT oligonucleotide primer, and subjected to PCR. Double stranded cDNA may be prepared using primers suitable for reverse transcription of the PCR product, followed by amplification of the cDNA using in vitro transcription. The product of in vitro transcription is a sense-RNA corresponding to the original member(s) of the candidate library. PCR product may be also be evaluated in a number of ways known in the art, including real-time assessment using detection of labeled primers, e.g. TaqMan or molecular beacon probes. Technology platforms suitable for analysis of PCR products include the ABI 7700, 5700, or 7000 Sequence Detection Systems (Applied Biosystems, Foster City, CA), the MJ Research Opticon (MJ Research, Waltham, MA), the Roche Light Cycler (Roche Diagnostics, Indianapolis, IN), the Stratagene MX4000 (Stratagene, La Jolla, CA), and the Bio-Rad iCycler (Bio-Rad Laboratories, Hercules, CA). Alternatively, molecular beacons are used to detect presence of a nucleic acid sequence in an unamplified RNA or cDNA sample, or following amplification of the sequence using any method, e.g. IVT (In Vitro transcription) or NASBA (nucleic acid sequence based amplification). Molecular beacons are designed with sequences complementary to member(s) of a candidate nucleotide library, and are linked to fluorescent labels. Each probe has a different fluorescent label with non-overlapping emission wavelengths. For example,



expression of ten genes may be assessed using ten different sequence-specific molecular beacons.

Alternatively, or in addition, molecular beacons are used to assess expression of multiple nucleotide sequences at once. Molecular beacons with sequence complimentary to the members of a diagnostic nucleotide set are designed and linked to fluorescent labels. Each fluorescent label used must have a non-overlapping emission wavelength. For example, 10 nucleotide sequences can be assessed by hybridizing 10 sequence specific molecular beacons (each labeled with a different fluorescent molecule) to an amplified or un-amplified RNA or cDNA sample. Such an assay bypasses the need for sample labeling procedures.

Alternatively, or in addition bead arrays can be used to assess expression of multiple sequences at once. See, e.g., LabMAP 100, Luminex Corp, Austin, Texas). Alternatively, or in addition electric arrays are used to assess expression of multiple sequences, as exemplified by the e-Sensor technology of Motorola (Chicago, Ill.) or Nanochip technology of Nanogen (San Diego, CA.)

Of course, the particular method elected will be dependent on such factors as quantity of RNA recovered, practitioner preference, available reagents and equipment, detectors, and the like. Typically, however, the elected method(s) will be appropriate for processing the number of samples and probes of interest. Methods for high-throughput expression analysis are discussed below.

Alternatively, expression at the level of protein products of gene expression is performed. For example, protein expression, in a sample of leukocytes, can be evaluated by one or more method selected from among: western analysis, two-dimensional gel analysis, chromatographic separation, mass spectrometric detection, protein-fusion reporter constructs, colorimetric assays, binding to a protein array and characterization of polysomal mRNA. One particularly favorable approach involves binding of labeled protein expression products to an array of antibodies specific for members of the candidate library. Methods for producing and evaluating antibodies are widespread in the art, *see*, e.g., Coligan, *supra*; and Harlow and Lane (1989) Antibodies: A Laboratory Manual, Cold Spring Harbor Press, NY ("Harlow and Lane"). Additional details regarding a variety of immunological and immunoassay procedures adaptable to the present invention by selection of antibody reagents specific for the products of candidate nucleotide sequences can be found in, e.g., Stites and Terr (eds.)(1991) Basic and Clinical Immunology, 7<sup>th</sup> ed., and Paul, *supra*.

Another approach uses systems for performing desorption spectrometry. Commercially available systems, e.g., from CIPHERGEN Biosystems, Inc. (Fremont, CA) are particularly well suited to quantitative analysis of protein expression. Indeed, Protein Chip® arrays (*see*, e.g., <http://www.ciphergen.com/>) used in desorption spectrometry approaches provide arrays for detection of protein expression. Alternatively, affinity reagents, e.g., antibodies, small molecules, etc.) are developed that recognize epitopes of the protein product. Affinity assays are used in protein array assays, e.g. to detect the presence or absence of particular proteins. Alternatively, affinity reagents are used to detect expression using the methods described above. In the case of a protein that is expressed on the cell surface of leukocytes, labeled affinity reagents are bound to populations of leukocytes, and leukocytes expressing the protein are identified and counted using fluorescent activated cell sorting (FACS).

It is appreciated that the methods of expression evaluation discussed herein, although discussed in the context of discovery of diagnostic nucleotide sets, are equally applicable for expression evaluation when using diagnostic nucleotide sets for, e.g. diagnosis of diseases, as further discussed below.

#### ***High Throughput Expression Assays***

A number of suitable high throughput formats exist for evaluating gene expression. Typically, the term high throughput refers to a format that performs at least about 100 assays, or at least about 500 assays, or at least about 1000 assays, or at least about 5000 assays, or at least about 10,000 assays, or more per day. When enumerating assays, either the number of samples or the number of candidate nucleotide sequences evaluated can be considered. For example, a northern analysis of, e.g., about 100 samples performed in a gridded array, e.g., a dot blot, using a single probe corresponding to a candidate nucleotide sequence can be considered a high throughput assay. More typically, however, such an assay is performed as a series of duplicate blots, each evaluated with a distinct probe corresponding to a different member of the candidate library. Alternatively, methods that simultaneously evaluate expression of about 100 or more candidate nucleotide sequences in one or more samples, or in multiple samples, are considered high throughput.

Numerous technological platforms for performing high throughput expression analysis are known. Generally, such methods involve a logical or physical array of

either the subject samples, or the candidate library, or both. Common array formats include both liquid and solid phase arrays. For example, assays employing liquid phase arrays, e.g., for hybridization of nucleic acids, binding of antibodies or other receptors to ligand, etc., can be performed in multiwell, or microtiter, plates. Microtiter plates with 96, 384 or 1536 wells are widely available, and even higher numbers of wells, e.g, 3456 and 9600 can be used. In general, the choice of microtiter plates is determined by the methods and equipment, e.g., robotic handling and loading systems, used for sample preparation and analysis. Exemplary systems include, e.g., the ORCA™ system from Beckman-Coulter, Inc. (Fullerton, CA) and the Zymate systems from Zymark Corporation (Hopkinton, MA).

Alternatively, a variety of solid phase arrays can favorably be employed in to determine expression patterns in the context of the invention. Exemplary formats include membrane or filter arrays (e.g, nitrocellulose, nylon), pin arrays, and bead arrays (e.g., in a liquid "slurry"). Typically, probes corresponding to nucleic acid or protein reagents that specifically interact with (e.g., hybridize to or bind to) an expression product corresponding to a member of the candidate library are immobilized, for example by direct or indirect cross-linking, to the solid support. Essentially any solid support capable of withstanding the reagents and conditions necessary for performing the particular expression assay can be utilized. For example, functionalized glass, silicon, silicon dioxide, modified silicon, any of a variety of polymers, such as (poly)tetrafluoroethylene, (poly)vinylidenedifluoride, polystyrene, polycarbonate, or combinations thereof can all serve as the substrate for a solid phase array.

In a preferred embodiment, the array is a "chip" composed, e.g., of one of the above specified materials. Polynucleotide probes, e.g., RNA or DNA, such as cDNA, synthetic oligonucleotides, and the like, or binding proteins such as antibodies, that specifically interact with expression products of individual components of the candidate library are affixed to the chip in a logically ordered manner, i.e., in an array. In addition, any molecule with a specific affinity for either the sense or anti-sense sequence of the marker nucleotide sequence (depending on the design of the sample labeling), can be fixed to the array surface without loss of specific affinity for the marker and can be obtained and produced for array production, for example, proteins that specifically recognize the specific nucleic acid sequence of the marker,

ribozymes, peptide nucleic acids (PNA), or other chemicals or molecules with specific affinity.

Detailed discussion of methods for linking nucleic acids and proteins to a chip substrate, are found in, e.g., US Patent No. 5,143,854 "LARGE SCALE PHOTOLITHOGRAPHIC SOLID PHASE SYNTHESIS OF POLYPEPTIDES AND RECEPTOR BINDING SCREENING THEREOF" to Pirrung et al., issued, September 1, 1992; US Patent No. 5,837,832 "ARRAYS OF NUCLEIC ACID PROBES ON BIOLOGICAL CHIPS" to Chee et al., issued November 17, 1998; US Patent No. 6,087,112 "ARRAYS WITH MODIFIED OLIGONUCLEOTIDE AND POLYNUCLEOTIDE COMPOSITIONS" to Dale, issued July 11, 2000; US Patent No. 5,215,882 "METHOD OF IMMOBILIZING NUCLEIC ACID ON A SOLID SUBSTRATE FOR USE IN NUCLEIC ACID HYBRIDIZATION ASSAYS" to Bahl et al., issued June 1, 1993; US Patent No. 5,707,807 "MOLECULAR INDEXING FOR EXPRESSED GENE ANALYSIS" to Kato, issued January 13, 1998; US Patent No. 5,807,522 "METHODS FOR FABRICATING MICROARRAYS OF BIOLOGICAL SAMPLES" to Brown et al., issued September 15, 1998; US Patent No. 5,958,342 "JET DROPLET DEVICE" to Gamble et al., issued Sept. 28, 1999; US Patent 5,994,076 "METHODS OF ASSAYING DIFFERENTIAL EXPRESSION" to Chenchik et al., issued Nov. 30, 1999; US Patent No. 6,004,755 "QUANTITATIVE MICROARRAY HYBRIDIZATION ASSAYS" to Wang, issued Dec. 21, 1999; US Patent No. 6,048,695 "CHEMICALLY MODIFIED NUCLEIC ACIDS AND METHOD FOR COUPLING NUCLEIC ACIDS TO SOLID SUPPORT" to Bradley et al., issued April 11, 2000; US Patent No. 6,060,240 "METHODS FOR MEASURING RELATIVE AMOUNTS OF NUCLEIC ACIDS IN A COMPLEX MIXTURE AND RETRIEVAL OF SPECIFIC SEQUENCES THEREFROM" to Kamb et al., issued May 9, 2000; US Patent No. 6,090,556 "METHOD FOR QUANTITATIVELY DETERMINING THE EXPRESSION OF A GENE" to Kato, issued July 18, 2000; and US Patent 6,040,138 "EXPRESSION MONITORING BY HYBRIDIZATION TO HIGH DENSITY OLIGONUCLEOTIDE ARRAYS" to Lockhart et al., issued March 21, 2000.

For example, cDNA inserts corresponding to candidate nucleotide sequences, in a standard TA cloning vector are amplified by a polymerase chain reaction for approximately 30-40 cycles. The amplified PCR products are then arrayed onto a glass support by any of a variety of well known techniques, e.g., the VSLIP<sup>TM</sup>

technology described in US Patent No. 5,143,854. RNA, or cDNA corresponding to RNA, isolated from a subject sample of leukocytes is labeled, e.g., with a fluorescent tag, and a solution containing the RNA (or cDNA) is incubated under conditions favorable for hybridization, with the "probe" chip. Following incubation, and washing to eliminate non-specific hybridization, the labeled nucleic acid bound to the chip is detected qualitatively or quantitatively, and the resulting expression profile for the corresponding candidate nucleotide sequences is recorded. It is appreciated that the probe used for diagnostic purposes may be identical to the probe used during diagnostic nucleotide sequence discovery and validation. Alternatively, the probe sequence may be different than the sequence used in diagnostic nucleotide sequence discovery and validation. Multiple cDNAs from a nucleotide sequence that are non-overlapping or partially overlapping may also be used.

In another approach, oligonucleotides corresponding to members of a candidate nucleotide library are synthesized and spotted onto an array. Alternatively, oligonucleotides are synthesized onto the array using methods known in the art, e.g. Hughes, et al. *supra*. The oligonucleotide is designed to be complementary to any portion of the candidate nucleotide sequence. In addition, in the context of expression analysis for, e.g. diagnostic use of diagnostic nucleotide sets, an oligonucleotide can be designed to exhibit particular hybridization characteristics, or to exhibit a particular specificity and/or sensitivity, as further described below.

Hybridization signal may be amplified using methods known in the art, and as described herein, for example use of the Clontech kit (Glass Fluorescent Labeling Kit), Stratagene kit (Fairplay Microarray Labeling Kit), the Micromax kit (New England Nuclear, Inc.), the Genisphere kit (3DNA Submicro), linear amplification, e.g. as described in U.S. Patent No. 6,132,997 or described in Hughes, TR, et al., *Nature Biotechnology*, 19:343-347 (2001) and/or Westin et al. *Nat Biotech.* 18:199-204.

Alternatively, fluorescently labeled cDNA are hybridized directly to the microarray using methods known in the art. For example, labeled cDNA are generated by reverse transcription using Cy3- and Cy5-conjugated deoxynucleotides, and the reaction products purified using standard methods. It is appreciated that the methods for signal amplification of expression data useful for identifying diagnostic nucleotide sets are also useful for amplification of expression data for diagnostic purposes.

Microarray expression may be detected by scanning the microarray with a variety of laser or CCD-based scanners, and extracting features with numerous software packages, for example, Imogene (Biodiscovery), Feature Extraction (Agilent), Scanalyze (Eisen, M. 1999. SCANALYZE User Manual; Stanford Univ., Stanford, CA. Ver 2.32.), GenePix (Axon Instruments).

In another approach, hybridization to microelectric arrays is performed, e.g. as described in Umek et al (2001) J Mol Diagn. 3:74-84. An affinity probe, e.g. DNA, is deposited on a metal surface. The metal surface underlying each probe is connected to a metal wire and electrical signal detection system. Unlabelled RNA or cDNA is hybridized to the array, or alternatively, RNA or cDNA sample is amplified before hybridization, e.g. by PCR. Specific hybridization of sample RNA or cDNA results in generation of an electrical signal, which is transmitted to a detector. See Westin (2000) Nat Biotech. 18:199-204 (describing anchored multiplex amplification of a microelectronic chip array); Edman (1997) NAR 25:4907-14; Vignali (2000) J Immunol Methods 243:243-55.

In another approach, a microfluidics chip is used for RNA sample preparation and analysis. This approach increases efficiency because sample preparation and analysis are streamlined. Briefly, microfluidics may be used to sort specific leukocyte sub-populations prior to RNA preparation and analysis. Microfluidics chips are also useful for, e.g., RNA preparation, and reactions involving RNA (reverse transcription, RT-PCR). Briefly, a small volume of whole, anti-coagulated blood is loaded onto a microfluidics chip, for example chips available from Caliper (Mountain View, CA) or Nanogen (San Diego, CA.) A microfluidics chip may contain channels and reservoirs in which cells are moved and reactions are performed. Mechanical, electrical, magnetic, gravitational, centrifugal or other forces are used to move the cells and to expose them to reagents. For example, cells of whole blood are moved into a chamber containing hypotonic saline, which results in selective lysis of red blood cells after a 20-minute incubation. Next, the remaining cells (leukocytes) are moved into a wash chamber and finally, moved into a chamber containing a lysis buffer such as guanidine isothiocyanate. The leukocyte cell lysate is further processed for RNA isolation in the chip, or is then removed for further processing, for example, RNA extraction by standard methods. Alternatively, the microfluidics chip is a circular disk containing ficoll or another density reagent. The blood sample is injected into the center of the disc, the disc is rotated at a speed that generates a

centrifugal force appropriate for density gradient separation of mononuclear cells, and the separated mononuclear cells are then harvested for further analysis or processing.

It is understood that the methods of expression evaluation, above, although discussed in the context of discovery of diagnostic nucleotide sets, are also applicable for expression evaluation when using diagnostic nucleotide sets for, e.g. diagnosis of diseases, as further discussed below.

### *Evaluation of expression patterns*

Expression patterns can be evaluated by qualitative and/or quantitative measures. Certain of the above described techniques for evaluating gene expression (as RNA or protein products) yield data that are predominantly qualitative in nature. That is, the methods detect differences in expression that classify expression into distinct modes without providing significant information regarding quantitative aspects of expression. For example, a technique can be described as a qualitative technique if it detects the presence or absence of expression of a candidate nucleotide sequence, i.e., an on/off pattern of expression. Alternatively, a qualitative technique measures the presence (and/or absence) of different alleles, or variants, of a gene product.

In contrast, some methods provide data that characterizes expression in a quantitative manner. That is, the methods relate expression on a numerical scale, e.g., a scale of 0-5, a scale of 1-10, a scale of + - +++, from grade 1 to grade 5, a grade from a to z, or the like. It will be understood that the numerical, and symbolic examples provided are arbitrary, and that any graduated scale (or any symbolic representation of a graduated scale) can be employed in the context of the present invention to describe quantitative differences in nucleotide sequence expression. Typically, such methods yield information corresponding to a relative increase or decrease in expression.

Any method that yields either quantitative or qualitative expression data is suitable for evaluating expression of candidate nucleotide sequence in a subject sample of leukocytes. In some cases, e.g., when multiple methods are employed to determine expression patterns for a plurality of candidate nucleotide sequences, the recovered data, e.g., the expression profile, for the nucleotide sequences is a combination of quantitative and qualitative data.

In some applications, expression of the plurality of candidate nucleotide sequences is evaluated sequentially. This is typically the case for methods that can be characterized as low- to moderate-throughput. In contrast, as the throughput of the elected assay increases, expression for the plurality of candidate nucleotide sequences in a sample or multiple samples of leukocytes, is assayed simultaneously. Again, the methods (and throughput) are largely determined by the individual practitioner, although, typically, it is preferable to employ methods that permit rapid, e.g. automated or partially automated, preparation and detection, on a scale that is time-efficient and cost-effective.

It is understood that the preceding discussion, while directed at the assessment of expression of the members of candidate libraries, is also applies to the assessment of the expression of members of diagnostic nucleotide sets, as further discussed below.

### ***Genotyping***

In addition to, or in conjunction with the correlation of expression profiles and clinical data, it is often desirable to correlate expression patterns with the subject's genotype at one or more genetic loci. The selected loci can be, for example, chromosomal loci corresponding to one or more member of the candidate library, polymorphic alleles for marker loci, or alternative disease related loci (not contributing to the candidate library) known to be, or putatively associated with, a disease (or disease criterion). Indeed, it will be appreciated, that where a (polymorphic) allele at a locus is linked to a disease (or to a predisposition to a disease), the presence of the allele can itself be a disease criterion.

Numerous well known methods exist for evaluating the genotype of an individual, including southern analysis, restriction fragment length polymorphism (RFLP) analysis, polymerase chain reaction (PCR), amplification length polymorphism (AFLP) analysis, single stranded conformation polymorphism (SSCP) analysis, single nucleotide polymorphism (SNP) analysis (e.g., via PCR, Taqman or molecular beacons), among many other useful methods. Many such procedures are readily adaptable to high throughput and/or automated (or semi-automated) sample preparation and analysis methods. Most, can be performed on nucleic acid samples recovered via simple procedures from the same sample of leukocytes as yielded the



material for expression profiling. Exemplary techniques are described in, e.g., Sambrook, and Ausubel, *supra*.

***Identification of the diagnostic nucleotide sets of the invention***

Identification of diagnostic nucleotide sets and disease specific target nucleotide sequence proceeds by correlating the leukocyte expression profiles with data regarding the subject's health status to produce a data set designated a "molecular signature." Examples of data regarding a patient's health status, also termed "disease criteria(ion)", is described below and in the Section titled "selected diseases," below. Methods useful for correlation analysis are further described elsewhere in the specification.

Generally, relevant data regarding the subject's health status includes retrospective or prospective health data, e.g., in the form of the subject's medical history, as provided by the subject, physician or third party, such as, medical diagnoses, laboratory test results, diagnostic test results, clinical events, or medication lists, as further described below. Such data may include information regarding a patient's response to treatment and/or a particular medication and data regarding the presence of previously characterized "risk factors." For example, cigarette smoking and obesity are previously identified risk factors for heart disease. Further examples of health status information, including diseases and disease criteria, is described in the section titled Selected diseases, below.

Typically, the data describes prior events and evaluations (i.e., retrospective data). However, it is envisioned that data collected subsequent to the sampling (i.e., prospective data) can also be correlated with the expression profile. The tissue sampled, e.g., peripheral blood, bronchial lavage, etc., can be obtained at one or more multiple time points and subject data is considered retrospective or prospective with respect to the time of sample procurement.

Data collected at multiple time points, called "longitudinal data", is often useful, and thus, the invention encompasses the analysis of patient data collected from the same patient at different time points. Analysis of paired samples, such as samples from a patient at different time, allows identification of differences that are specifically related to the disease state since the genetic variability specific to the patient is controlled for by the comparison. Additionally, other variables that exist between patients may be controlled for in this way, for example, the presence or

absence of inflammatory diseases (e.g., rheumatoid arthritis) the use of medications that may effect leukocyte gene expression, the presence or absence of co-morbid conditions, etc. Methods for analysis of paired samples are further described below. Moreover, the analysis of a pattern of expression profiles (generated by collecting multiple expression profiles) provides information relating to changes in expression level over time, and may permit the determination of a rate of change, a trajectory, or an expression curve. Two longitudinal samples may provide information on the change in expression of a gene over time, while three longitudinal samples may be necessary to determine the "trajectory" of expression of a gene. Such information may be relevant to the diagnosis of a disease. For example, the expression of a gene may vary from individual to individual, but a clinical event, for example, a heart attack, may cause the level of expression to double in each patient. In this example, clinically interesting information is gleaned from the change in expression level, as opposed to the absolute level of expression in each individual.

Generally, small sample sizes of 10-40 samples from 10-20 individuals are used to identify a diagnostic nucleotide set. Larger sample sizes are generally necessary to validate the diagnostic nucleotide set for use in large and varied patient populations, as further described below. For example, extension of gene expression correlations to varied ethnic groups, demographic groups, nations, peoples or races may require expression correlation experiments on the population of interest.

#### Expression Reference Standards

Expression profiles derived from a patient (i.e., subjects diagnosed with, or exhibiting symptoms of, or exhibiting a disease criterion, or under a doctor's care for a disease) sample are compared to a control or standard expression RNA to facilitate comparison of expression profiles (e.g. of a set of candidate nucleotide sequences) from a group of patients relative to each other (i.e., from one patient in the group to other patients in the group, or to patients in another group).

For example, in one approach to identifying diagnostic nucleotide sets, expression profiles derived from patient samples are compared to a expression reference "standard." Standard expression reference can be, for example, RNA derived from resting cultured leukocytes or commercially available reference RNA, such as Universal reference RNA from Stratagene. *See Nature*, V406, 8-17-00, p. 747-752. Use of an expression reference standard is particularly useful when the expression of large numbers of nucleotide sequences is assayed, e.g. in an array, and

in certain other applications, e.g. qualitative PCR, RT-PCR, etc., where it is desirable to compare a sample profile to a standard profile, and/or when large numbers of expression profiles, e.g. a patient population, are to be compared. Generally, an expression reference standard should be available in large quantities, should be a good substrate for amplification and labeling reactions, and should be capable of detecting a large percentage of candidate nucleic acids using suitable expression profiling technology.

Alternatively, or in addition, the expression profile derived from a patient sample is compared with the expression of an internal reference control gene, for example,  $\beta$ -actin or CD4. The relative expression of the profiled genes and the internal reference control gene (from the same individual) is obtained. An internal reference control may also be used with a reference RNA. For example, an expression profile for "gene 1" and the gene encoding CD4 can be determined in a patient sample and in a reference RNA. The expression of each gene can be expressed as the "relative" ratio of expression the gene in the patient sample compared with expression of the gene in the reference RNA. The expression ratio (sample/reference) for gene 1 may be divided by the expression ratio for CD4 (sample/reference) and thus the relative expression of gene 1 to CD4 is obtained.

The invention also provides a buffy coat control RNA useful for expression profiling, and a method of using control RNA produced from a population of buffy coat cells, the white blood cell layer derived from the centrifugation of whole blood. Buffy coat contains all white blood cells, including granulocytes, mononuclear cells and platelets. The invention also provides a method of preparing control RNA from buffy coat cells for use in expression profile analysis of leukocytes. Buffy coat fractions are obtained, e.g. from a blood bank or directly from individuals, preferably from a large number of individuals such that bias from individual samples is avoided and so that the RNA sample represents an average expression of a healthy population. Buffy coat fractions from about 50 or about 100, or more individuals are preferred. 10 ml buffy coat from each individual is used. Buffy coat samples are treated with an erythrocyte lysis buffer, so that erythrocytes are selectively removed. The leukocytes of the buffy coat layer are collected by centrifugation. Alternatively, the buffy cell sample can be further enriched for a particular leukocyte sub-populations, e.g. mononuclear cells, T-lymphocytes, etc. To enrich for mononuclear cells, the

buffy cell pellet, above, is diluted in PBS (phosphate buffered saline) and loaded onto a non-polystyrene tube containing a polysucrose and sodium diatrizoate solution adjusted to a density of 1.077+/-0.001 g/ml. To enrich for T-lymphocytes, 45 ml of whole blood is treated with RosetteSep (Stem Cell Technologies), and incubated at room temperature for 20 minutes. The mixture is diluted with an equal volume of PBS plus 2% FBS and mixed by inversion. 30 ml of diluted mixture is layered on top of 15 ml DML medium (Stem Cell Technologies). The tube is centrifuged at 1200 x g, and the enriched cell layer at the plasma : medium interface is removed, washed with PBS + 2% FBS, and cells collected by centrifugation at 1200 x g. The cell pellet is treated with 5 ml of erythrocyte lysis buffer (EL buffer, Qiagen) for 10 minutes on ice, and enriched T-lymphocytes are collected by centrifugation.

In addition or alternatively, the buffy cells (whole buffy coat or sub-population, e.g. mononuclear fraction) can be cultured *in vitro* and subjected to stimulation with cytokines or activating chemicals such as phorbol esters or ionomycin. Such stimuli may increase expression of nucleotide sequences that are expressed in activated immune cells and might be of interest for leukocyte expression profiling experiments.

Following sub-population selection and/or further treatment, e.g. stimulation as described above, RNA is prepared using standard methods. For example, cells are pelleted and lysed with a phenol/guanidinium thiocyanate and RNA is prepared. RNA can also be isolated using a silica gel-based purification column or the column method can be used on RNA isolated by the phenol/guanidinium thiocyanate method. RNA from individual buffy coat samples can be pooled during this process, so that the resulting reference RNA represents the RNA of many individuals and individual bias is minimized or eliminated. In addition, a new batch of buffy coat reference RNA can be directly compared to the last batch to ensure similar expression pattern from one batch to another, using methods of collecting and comparing expression profiles described above/below. One or more expression reference controls are used in an experiment. For example, RNA derived from one or more of the following sources can be used as controls for an experiment: stimulated or unstimulated whole buffy coat, stimulated or unstimulated peripheral mononuclear cells, or stimulated or unstimulated T-lymphocytes.

Alternatively, the expression reference standard can be derived from any subject or class of subjects including healthy subjects or subjects diagnosed with the

same or a different disease or disease criterion. Expression profiles from subjects in two distinct classes are compared to determine which subset of nucleotide sequences in the candidate library best distinguish between the two subject classes, as further discussed below. It will be appreciated that in the present context, the term “distinct classes” is relevant to at least one distinguishable criterion relevant to a disease of interest, a “disease criterion.” The classes can, of course, demonstrate significant overlap (or identity) with respect to other disease criteria, or with respect to disease diagnoses, prognoses, or the like. The mode of discovery involves, e.g., comparing the molecular signature of different subject classes to each other (such as patient to control, patients with a first diagnosis to patients with a second diagnosis, etc.) or by comparing the molecular signatures of a single individual taken at different time points. The invention can be applied to a broad range of diseases, disease criteria, conditions and other clinical and/or epidemiological questions, as further discussed above/below.

It is appreciated that while the present discussion pertains to the use of expression reference controls while identifying diagnostic nucleotide sets, expression reference controls are also useful during use of diagnostic nucleotide sets, e.g. use of a diagnostic nucleotide set for diagnosis of a disease, as further described below.

#### Analysis of expression profiles

In order to facilitate ready access, e.g., for comparison, review, recovery, and/or modification, the molecular signatures/expression profiles are typically recorded in a database. Most typically, the database is a relational database accessible by a computational device, although other formats, e.g., manually accessible indexed files of expression profiles as photographs, analogue or digital imaging readouts, spreadsheets, etc. can be used. Further details regarding preferred embodiments are provided below. Regardless of whether the expression patterns initially recorded are analog or digital in nature and/or whether they represent quantitative or qualitative differences in expression, the expression patterns, expression profiles (collective expression patterns), and molecular signatures (correlated expression patterns) are stored digitally and accessed via a database. Typically, the database is compiled and maintained at a central facility, with access being available locally and/or remotely.

As additional samples are obtained, and their expression profiles determined and correlated with relevant subject data, the ensuing molecular signatures are likewise recorded in the database. However, rather than each subsequent addition

being added in an essentially passive manner in which the data from one sample has little relation to data from a second (prior or subsequent) sample, the algorithms optionally additionally query additional samples against the existing database to further refine the association between a molecular signature and disease criterion. Furthermore, the data set comprising the one (or more) molecular signatures is optionally queried against an expanding set of additional or other disease criteria. The use of the database in integrated systems and web embodiments is further described below.

#### Analysis of expression profile data from arrays

Expression data is analyzed using methods well known in the art, including the software packages Imagene (Biodiscovery, Marina del Rey, CA), Feature Extraction (Agilent, Palo Alto, CA), and Scanalyze (Stanford University). In the discussion that follows, a “feature” refers to an individual spot of DNA on an array. Each gene may have more than one feature. For example, hybridized microarrays are scanned and analyzed on an Axon Instruments scanner using GenePix 3.0 software (Axon Instruments, Union City, CA). The data extracted by GenePix is used for all downstream quality control and expression evaluation. The data is derived as follows. The data for all features flagged as “not found” by the software is removed from the dataset for individual hybridizations. The “not found” flag by GenePix indicates that the software was unable to discriminate the feature from the background. Each feature is examined to determine the value of its signal. The median pixel intensity of the background ( $B_n$ ) is subtracted from the median pixel intensity of the feature ( $F_n$ ) to produce the background-subtracted signal (hereinafter, “BGSS”). The BGSS is divided by the standard deviation of the background pixels to provide the signal-to-noise ratio (hereinafter, “S/N”). Features with a S/N of three or greater in both the Cy3 channel (corresponding to the sample RNA) and Cy5 channel (corresponding to the reference RNA) are used for further analysis (hereinafter denoted “useable features”). Alternatively, different S/Ns are used for selecting expression data for an analysis. For example, only expression data with signal to noise ratios  $> 3$  might be used in an analysis.

For each usable feature ( $i$ ), the expression level ( $e$ ) is expressed as the logarithm of the ratio ( $R$ ) of the Background Subtracted Signal (hereinafter “BGSS”) for the Cy3 (sample RNA) channel divided by the BGSS for the Cy5 channel (reference RNA). This “log ratio” value is used for comparison to other experiments.

$$R_i = \frac{BGSS_{sample}}{BGSS_{reference}} \quad (0.1)$$

$$e_i = \log r_i \quad (0.2)$$

Variation in signal across hybridizations may be caused by a number of factors affecting hybridization, DNA spotting, wash conditions, and labeling efficiency.

A single reference RNA may be used with all of the experimental RNAs, permitting multiple comparisons in addition to individual comparisons. By comparing sample RNAs to the same reference, the gene expression levels from each sample are compared across arrays, permitting the use of a consistent denominator for our experimental ratios.

### Scaling

The data may be scaled (normalized) to control for labeling and hybridization variability within the experiment, using methods known in the art. Scaling is desirable because it facilitates the comparison of data between different experiments, patients, etc. Generally the BGSS are scaled to a factor such as the median, the mean, the trimmed mean, and percentile. Additional methods of scaling include: to scale between 0 and 1, to subtract the mean, or to subtract the median.

Scaling is also performed by comparison to expression patterns obtained using a common reference RNA, as described in greater detail above. As with other scaling methods, the reference RNA facilitates multiple comparisons of the expression data, e.g., between patients, between samples, etc. Use of a reference RNA provides a consistent denominator for experimental ratios.

In addition to the use of a reference RNA, individual expression levels may be adjusted to correct for differences in labeling efficiency between different hybridization experiments, allowing direct comparison between experiments with different overall signal intensities, for example. A scaling factor ( $a$ ) may be used to adjust individual expression levels as follows. The median of the scaling factor ( $a$ ), for example, BGSS, is determined for the set of all features with a S/N greater than three. Next, the BGSS<sub>*i*</sub> (the BGSS for each feature "i") is divided by the median for

all features ( $a$ ), generating a scaled ratio. The scaled ratio is used to determine the expression value for the feature ( $e_i$ ), or the log ratio.

$$S_i = \frac{BGSS_i}{a} \quad (0.3)$$

$$e_i = \log \left( \frac{Cy3S_i}{Cy5S_i} \right) \quad (0.4)$$

In addition, or alternatively, control features are used to normalize the data for labeling and hybridization variability within the experiment. Control feature may be cDNA for genes from the plant, *Arabidopsis thaliana*, that are included when spotting the mini-array. Equal amounts of RNA complementary to control cDNAs are added to each of the samples before they were labeled. Using the signal from these control genes, a normalization constant ( $L$ ) is determined according to the following formula:

$$L_j = \frac{\frac{\sum_{i=1}^N BGSS_{j,i}}{N}}{\frac{\sum_{j=1}^K \frac{\sum_{i=1}^N BGSS_{j,i}}{N}}{K}}$$

where  $BGSS_i$  is the signal for a specific feature,  $N$  is the number of *A. thaliana* control features,  $K$  is the number of hybridizations, and  $L_j$  is the normalization constant for each individual hybridization.

Using the formula above, the mean for all control features of a particular hybridization and dye (e.g., Cy3) is calculated. The control feature means for all Cy3 hybridizations are averaged, and the control feature mean in one hybridization divided by the average of all hybridizations to generate a normalization constant for that particular Cy3 hybridization ( $L_j$ ), which is used as  $a$  in equation (0.3). The same normalization steps may be performed for Cy3 and Cy5 values.

Many additional methods for normalization exist and can be applied to the data. In one method, the average ratio of Cy3 BGSS / Cy5 BGSS is determined for all features on an array. This ratio is then scaled to some arbitrary number, such as 1 or some other number. The ratio for each probe is then multiplied by the scaling



factor required to bring the average ratio to the chosen level. This is performed for each array in an analysis. Alternatively, the ratios are normalized to the average ratio across all arrays in an analysis.

#### Correlation analysis

Correlation analysis is performed to determine which array probes have expression behavior that best distinguishes or serves as markers for relevant groups of samples representing a particular clinical condition. Correlation analysis, or comparison among samples representing different disease criteria (e.g., clinical conditions), is performed using standard statistical methods. Numerous algorithms are useful for correlation analysis of expression data, and the selection of algorithms depends in part on the data analysis to be performed. For example, algorithms can be used to identify the single most informative gene with expression behavior that reliably classifies samples, or to identify all the genes useful to classify samples. Alternatively, algorithms can be applied that determine which set of 2 or more genes have collective expression behavior that accurately classifies samples. The use of multiple expression markers for diagnostics may overcome the variability in expression of a gene between individuals, or overcome the variability intrinsic to the assay. Multiple expression markers may include redundant markers, in that two or more genes or probes may provide the same information with respect to diagnosis. This may occur, for example, when two or more genes or gene probes are coordinately expressed. It will be appreciated that while the discussion above pertains to the analysis of RNA expression profiles the discussion is equally applicable to the analysis of profiles of proteins or other molecular markers.

Prior to analysis, expression profile data may be formatted or prepared for analysis using methods known in the art. For example, often the log ratio of scaled expression data for every array probe is calculated using the following formula:

$\log (\text{Cy } 3 \text{ BGSS} / \text{Cy}5 \text{ BGSS})$ , where Cy 3 signal corresponds to the expression of the gene in the clinical sample, and Cy5 signal corresponds to expression of the gene in the reference RNA.

Data may be further filtered depending on the specific analysis to be done as noted below. For example, filtering may be aimed at selecting only samples with expression above a certain level, or probes with variability above a certain level between sample sets.

The following non-limiting discussion consider several statistical methods known in the art. Briefly, the t-test and ANOVA are used to identify single genes with expression differences between or among populations, respectively. Multivariate methods are used to identify a set of two or more genes for which expression discriminates between two disease states more specifically than expression of any single gene.

#### t-test

The simplest measure of a difference between two groups is the Student's t test. See, e.g., Welsh et al. (2001) Proc Natl Acad Sci USA 98:1176-81 (demonstrating the use of an unpaired Student's t-test for the discovery of differential gene expression in ovarian cancer samples and control tissue samples). The t- test assumes equal variance and normally distributed data. This test identifies the probability that there is a difference in expression of a single gene between two groups of samples. The number of samples within each group that is required to achieve statistical significance is dependent upon the variation among the samples within each group. The standard formula for a t-test is:

$$t(e_i) = \frac{\bar{e}_{i,c} - \bar{e}_{i,t}}{\sqrt{(s_{i,c}^2/n_c) + (s_{i,t}^2/n_t)}}, \quad (0.5)$$

where  $\bar{e}_i$  is the difference between the mean expression level of gene i in groups c and t,  $s_{i,c}$  is the variance of gene x in group c and  $s_{i,t}$  is the variance of gene x in group t.  $n_c$  and  $n_t$  are the numbers of samples in groups c and t.

The combination of the t statistic and the degrees of freedom  $[\min(n_t, n_c)-1]$  provides a p value, the probability of rejecting the null hypothesis. A p-value of  $\leq 0.01$ , signifying a 99 percent probability the mean expression levels are different between the two groups (a 1% chance that the mean expression levels are in fact not different and that the observed difference occurred by statistical chance), is often considered acceptable.

When performing tests on a large scale, for example, on a large dataset of about 8000 genes, a correction factor must be included to adjust for the number of individual tests being performed. The most common and simplest correction is the

Bonferroni correction for multiple tests, which divides the p-value by the number of tests run. Using this test on an 8000 member dataset indicates that a p value of  $\leq 0.00000125$  is required to identify genes that are likely to be truly different between the two test conditions.

#### Wilcoxon's signed ranks test

This method is non-parametric and is utilized for paired comparisons. See e.g., Sokal and Rohlf (1987) Introduction to Biostatistics 2<sup>nd</sup> edition, WH Freeman, New York. At least 6 pairs are necessary to apply this statistic. This test is useful for analysis of paired expression data (for example, a set of patients who have cardiac transplant biopsy on 2 occasions and have a grade 0 on one occasion and a grade 3A on another).

#### ANOVA

Differences in gene expression across multiple related groups may be assessed using an Analysis of Variance (ANOVA), a method well known in the art (Michelson and Schofield, 1996).

#### Multivariate analysis

Many algorithms suitable for multivariate analysis are known in the art. Generally, a set of two or more genes for which expression discriminates between two disease states more specifically than expression of any single gene is identified by searching through the possible combinations of genes using a criterion for discrimination, for example the expression of gene X must increase from normal 300 percent, while the expression of genes Y and Z must decrease from normal by 75 percent. Ordinarily, the search starts with a single gene, then adds the next best fit at each step of the search. Alternatively, the search starts with all of the genes and genes that do not aid in the discrimination are eliminated step-wise.

#### Paired samples

Paired samples, or samples collected at different time-points from the same patient, are often useful, as described above. For example, use of paired samples permits the reduction of variation due to genetic variation among individuals. In addition, the use of paired samples has a statistical significance, in that data derived from paired samples can be calculated in a different manner that recognizes the reduced variability. For example, the formula for a t-test for paired samples is:

$$t(e_x) = \frac{\bar{D}_{e_x}}{\sqrt{\frac{\sum D^2 - (\sum D)^2 / b}{b-1}}}, \quad (0.5)$$

where  $D$  is the difference between each set of paired samples and  $b$  is the number of sample pairs.  $\bar{D}$  is the mean of the differences between the members of the pairs. In this test, only the differences between the paired samples are considered, then grouped together (as opposed to taking all possible differences between groups, as would be the case with an ordinary t-test). Additional statistical tests useful with paired data, e.g., ANOVA and Wilcoxon's signed rank test, are discussed above.

#### Diagnostic classification

Once a discriminating set of genes is identified, the diagnostic classifier (a mathematical function that assigns samples to diagnostic categories based on expression data) is applied to unknown sample expression levels.

Methods that can be used for this analysis include the following non-limiting list:

CLEAVER is an algorithm used for classification of useful expression profile data. See Raychaudhuri et al. (2001) Trends Biotechnol 19:189-193. CLEAVER uses positive training samples (e.g., expression profiles from samples known to be derived from a particular patient or sample diagnostic category, disease or disease criteria), negative training samples (e.g., expression profiles from samples known not to be derived from a particular patient or sample diagnostic category, disease or disease criteria) and test samples (e.g., expression profiles obtained from a patient), and determines whether the test sample correlates with the particular disease or disease criteria, or does not correlate with a particular disease or disease criteria. CLEAVER also generates a list of the 20 most predictive genes for classification.

Artificial neural networks (hereinafter, "ANN") can be used to recognize patterns in complex data sets and can discover expression criteria that classify samples into more than 2 groups. The use of artificial neural networks for discovery of gene expression diagnostics for cancers using expression data generated by oligonucleotide expression microarrays is demonstrated by Khan et al. (2001) Nature Med. 7:673-9. Khan found that 96 genes provided 0% error rate in classification of the tumors. The most important of these genes for classification was then determined

by measuring the sensitivity of the classification to a change in expression of each gene. Hierarchical clustering using the 96 genes results in correct grouping of the cancers into diagnostic categories.

Golub uses cDNA microarrays and a distinction calculation to identify genes with expression behavior that distinguishes myeloid and lymphoid leukemias. See Golub et al. (1999) Science 286:531-7. Self organizing maps were used for new class discovery. Cross validation was done with a "leave one out" analysis. 50 genes were identified as useful markers. This was reduced to as few as 10 genes with equivalent diagnostic accuracy.

Hierarchical and non-hierarchical clustering methods are also useful for identifying groups of genes that correlate with a subset of clinical samples such as with transplant rejection grade. Alizadeh used hierarchical clustering as the primary tool to distinguish different types of diffuse B-cell lymphomas based on gene expression profile data. See Alizadeh et al. (2000) Nature 403:503-11. Alizadeh used hierarchical clustering as the primary tool to distinguish different types of diffuse B-cell lymphomas based on gene expression profile data. A cDNA array carrying 17856 probes was used for these experiments, 96 samples were assessed on 128 arrays, and a set of 380 genes was identified as being useful for sample classification.

Perou demonstrates the use of hierarchical clustering for the molecular classification of breast tumor samples based on expression profile data. See Perou et al. (2000) Nature 406:747-52. In this work, a cDNA array carrying 8102 gene probes was used. 1753 of these genes were found to have high variation between breast tumors and were used for the analysis.

Hastie describes the use of gene shaving for discovery of expression markers. Hastie et al. (2000) Genome Biol. 1(2):RESEARCH 0003.1-0003.21. The gene shaving algorithm identifies sets of genes with similar or coherent expression patterns, but large variation across conditions (RNA samples, sample classes, patient classes). In this manner, genes with a tight expression pattern within a transplant rejection grade, but also with high variability across rejection grades are grouped together. The algorithm takes advantage of both characteristics in one grouping step. For example, gene shaving can identify useful marker genes with co-regulated expression. Sets of useful marker genes can be reduced to a smaller set, with each gene providing some non-redundant value in classification. This algorithm was used on the data set

described in Alizadeh et al., supra, and the set of 380 informative gene markers was reduced to 234.

### *Selected Diseases*

In principle, diagnostic nucleotide sets of the invention may be developed and applied to essentially any disease, or disease criterion, as long as at least one subset of nucleotide sequences is differentially expressed in samples derived from one or more individuals with a disease criteria or disease and one or more individuals without the disease criteria or disease, wherein the individual may be the same individual sampled at different points in time, or the individuals may be different individuals (or populations of individuals). For example, the subset of nucleotide sequences may be differentially expressed in the sampled tissues of subjects with the disease or disease criterion (e.g., a patient with a disease or disease criteria) as compared to subjects without the disease or disease criterion (e.g., patients without a disease (control patients)). Alternatively, or in addition, the subset of nucleotide sequence(s) may be differentially expressed in different samples taken from the same patient, e.g. at different points in time, at different disease stages, before and after a treatment, in the presence or absence of a risk factor, etc.

Expression profiles corresponding to sets of nucleotide sequences that correlate not with a diagnosis, but rather with a particular aspect of a disease can also be used to identify the diagnostic nucleotide sets and disease specific target nucleotide sequences of the invention. For example, such an aspect, or disease criterion, can relate to a subject's medical or family history, e.g., childhood illness, cause of death of a parent or other relative, prior surgery or other intervention, medications, symptoms (including onset and/or duration of symptoms), etc. Alternatively, the disease criterion can relate to a diagnosis, e.g., hypertension, diabetes, atherosclerosis, or prognosis (e.g., prediction of future diagnoses, events or complications), e.g., acute myocardial infarction, restenosis following angioplasty, reperfusion injury, allograft rejection, rheumatoid arthritis or systemic lupus erythematosus disease activity or the like. In other cases, the disease criterion corresponds to a therapeutic outcome, e.g., transplant rejection, bypass surgery or response to a medication, restenosis after stent implantation, collateral vessel growth due to therapeutic angiogenesis therapy, decreased angina due to revascularization, resolution of symptoms associated with a myriad of therapies, and the like. Alternatively, the disease criteria corresponds with

previously identified or classic risk factors and may correspond to prognosis or future disease diagnosis. As indicated above, a disease criterion can also correspond to genotype for one or more loci. Disease criteria (including patient data) may be collected (and compared) from the same patient at different points in time, from different patients, between patients with a disease (criterion) and patients representing a control population, etc. Longitudinal data, i.e., data collected at different time points from an individual (or group of individuals) may be used for comparisons of samples obtained from an individual (group of individuals) at different points in time, to permit identification of differences specifically related to the disease state, and to obtain information relating to the change in expression over time, including a rate of change or trajectory of expression over time. The usefulness of longitudinal data is further discussed in the section titled "Identification of diagnostic nucleotide sets of the invention".

It is further understood that diagnostic nucleotide sets may be developed for use in diagnosing conditions for which there is no present means of diagnosis. For example, in rheumatoid arthritis, joint destruction is often well under way before a patient experience symptoms of the condition. A diagnostic nucleotide set may be developed that diagnoses rheumatic joint destruction at an earlier stage than would be possible using present means of diagnosis, which rely in part on the presentation of symptoms by a patient. Diagnostic nucleotide sets may also be developed to replace or augment current diagnostic procedures. For example, the use of a diagnostic nucleotide set to diagnose cardiac allograft rejection may replace the current diagnostic test, a graft biopsy.

It is understood that the following discussion of diseases is exemplary and non-limiting, and further that the general criteria discussed above, e.g. use of family medical history, are generally applicable to the specific diseases discussed below.

In addition to leukocytes, as described throughout, the general method is applicable to nucleotide sequences that are differentially expressed in any subject tissue or cell type, by the collection and assessment of samples of that tissue or cell type. However, in many cases, collection of such samples presents significant technical or medical problems given the current state of the art.

#### Organ transplant rejection and success

A frequent complication of organ transplantation is recognition of the transplanted organ as foreign by the immune system resulting in rejection. Diagnostic

nucleotide sets can be identified and validated for monitoring organ transplant success, rejection and treatment. Medications currently exist that suppress the immune system, and thereby decrease the rate of and severity of rejection. However, these drugs also suppress the physiologic immune responses, leaving the patient susceptible to a wide variety of opportunistic infections. At present there is no easy, reliable way to diagnose transplant rejection. Organ biopsy is the preferred method, but this is expensive, painful and associated with significant risk and has inadequate sensitivity for focal rejection.

Diagnostic nucleotide sets of the present invention can be developed and validated for use as diagnostic tests for transplant rejection and success. It is appreciated that the methods of identifying diagnostic nucleotide sets are applicable to any organ transplant population. For example, diagnostic nucleotide sets are developed for cardiac allograft rejection and success. In some cases, disease criteria correspond to acute stage rejection diagnosis based on organ biopsy and graded using the International Society for Heart and Lung Transplantation ("ISHLT") criteria. Other disease criteria correspond to information from the patient's medical history and information regarding the organ donor. Alternatively, disease criteria include the presence or absence of cytomegalovirus (CMV) infection, Epstein-Barr virus (EBV) infection, allograft dysfunction measured by physiological tests of cardiac function (e.g., hemodynamic measurements from catheterization or echocardiograph data), and symptoms of other infections. Alternatively, disease criteria corresponds to therapeutic outcome, e.g. graft failure, re-transplantation, transplant vasculopathy, response to immunosuppressive medications, etc. Disease criteria may further correspond to a rejection episode of at least moderate histologic grade, which results in treatment of the patient with additional corticosteroids, anti-T cell antibodies, or total lymphoid irradiation; a rejection with histologic grade 2 or higher; a rejection with histologic grade <2; the absence of histologic rejection and normal or unchanged allograft function (based on hemodynamic measurements from catheterization or on echocardiographic data); the presence of severe allograft dysfunction or worsening allograft dysfunction during the study period (based on hemodynamic measurements from catheterization or on echocardiographic data).; documented CMV infection by culture, histology, or PCR, and at least one clinical sign or symptom of infection; specific graft biopsy rejection grades; rejection of mild to moderate histologic severity prompting augmentation of the patient's chronic immunosuppressive regimen;



rejection of mild to moderate severity with allograft dysfunction prompting plasmaphoresis or a diagnosis of “humoral” rejection; infections other than CMV, especially infection with Epstein Barr virus (EBV); lymphoproliferative disorder (also called post-transplant lymphoma); transplant vasculopathy diagnosed by increased intimal thickness on intravascular ultrasound (IVUS), angiography, or acute myocardial infarction; graft failure or retransplantation; and all cause mortality. Further specific examples of clinical data useful as disease criteria are provided in Example 11.

In another example, diagnostic nucleotide sets are developed and validated for use in treatment of kidney allograft rejection. Disease criteria correspond to, e.g., results of biopsy analysis for kidney allograft rejection, serum creatine level, and urinalysis results. Another disease criteria corresponds to the need for hemodialysis or other renal replacement therapy. Diagnostic nucleotide sets are developed and validated for use in diagnosis and treatment of bone marrow transplant rejection and liver transplant rejection, respectively. Disease criteria for bone marrow transplant rejection correspond to the diagnosis and monitoring of graft rejection and/or graft versus host disease. Disease criteria for liver transplant rejection include levels of serum markers for liver damage and liver function such as AST (aspartate aminotransferase), ALT (alanine aminotransferase), Alkaline phosphatase, GGT, (gamma-glutamyl transpeptidase) Bilirubin, Albumin and Prothrombin time. Further disease criteria correspond to hepatic encephalopathy, medication usage, ascites, and histological rejection on graft biopsy. In addition, urine can be utilized for at the target tissue for profiling in renal transplant, while biliary and intestinal and feces may be used favorably for hepatic or intestinal organ allograft rejection.

#### Atherosclerosis and Stable Angina Pectoris

Over 50 million patients in the U.S. have atherosclerotic coronary artery disease (hereinafter, “CAD”), and it is of great importance to identify patients who will suffer complications from the disease. Atherosclerosis leads to progressive narrowing of the coronary arteries, which may lead to myocardial ischemia, which manifests as stable angina pectoris, or chest pain with exertion. In addition to chest pain, patients may also have shortness of breath (dyspnea), fatigue, nausea or other symptoms with exertion. Myocardial infarction (heart attack) and unstable angina are acute events associated with atherosclerosis. There is currently no way to accurately predict the occurrence of acute events in patients with atherosclerosis, however.

Although the presence of classic risk factors and arterial wall calcification (as assessed by CT scanning) is weakly correlated with the occurrence of acute coronary syndrome, the degree of artery stenosis (i.e. vessel occlusion as a result of atherosclerosis) correlates poorly with the occurrence of future acute events, as acute events occur more commonly in coronary arteries with 40-50% blockage than arteries that are 80-90% blocked. Coronary angiography can provide information about degree of coronary blockage, but is a poor tool for the measurement of disease activity and the prediction of the likelihood of acute events and other poor outcomes.

Diagnostic nucleotide sets are developed and validated for use in diagnosis and monitoring of atherosclerosis, and in predicting the likelihood of complications, e.g. angina and myocardial infarction. Alternatively, or in addition, disease criteria correspond to symptoms or diagnosis of disease progression, e.g. clinical results of angiography indicating progressive narrowing of vessel lumens. In another aspect, diagnostic nucleotide sets are developed for use in predicting the likelihood of future acute events in patients suffering from atherosclerosis. Disease criteria correspond to retrospective data, for example a recent history of unstable angina or myocardial infarction. Disease criteria also correspond to prospective data, for example, the occurrence of unstable angina or myocardial infarction. In another case, disease criteria correspond to standard medical indicators of occurrence of an acute event, e.g. serum enzyme levels, electrocardiographic testing, chest pain, nuclear magnetic imaging, etc.

#### Congestive Heart Failure

Congestive heart failure (hereinafter, "CHF") is a disease that affects increasing numbers of individuals. Without being bound by theory, it is believed that CHF is associated with systemic inflammation. Markers of systemic inflammation and serum cytokine levels such as erythrocyte sedimentation rate (ESR) and C-reactive protein (CRP) and serum cytokine levels are elevated (or altered) in patients with CHF, and elevation correlates with the severity and progression of the disease. Furthermore, serum catecholamine levels (epinephrine and norepinephrine) are also elevated in proportion to the severity of CHF, and may directly alter leukocyte expression patterns. Currently, echocardiography is the test primarily used to assess the severity of CHF and monitor progression of the disease. There are a number of drugs that are efficacious in treating CHF, such as beta-blockers and ACE inhibitors.

A leukocyte test with the ability to determine the rate of progression and the adequacy of therapy is of great interest.

Diagnostic nucleotide sets are developed and validated for use in diagnosis and monitoring of progression and rate of progression (activity) of CHF. Disease criteria correspond to the results of echocardiography testing, which may indicate diagnosis of CHF or increasing severity of CHF as evidenced by worsening parameters for ventricular function, such as the ejection fraction, fractional shortening, wall motion or ventricular pressures. Alternatively, or in addition, disease criteria correspond to hospitalization for CHF, death, pulmonary edema, increased cardiac chamber dimensions on echocardiography or another imaging test, exercise testing of hemodynamic measurements, serial CRP, other serum markers, NYHA functional classes, quality of life measures, renal function, transplant listing, pulmonary edema, left ventricular assist device use, medication use and changes, and worsening of Ejection Fraction by echocardiography, angiography, MRI, CT or nuclear imaging. In another aspect, disease criteria correspond to response to drug therapy, e.g. beta-blockers or ACE inhibitors.

#### Risk factors for coronary artery disease

The established and classic risks for the occurrence of coronary artery disease and complications of that disease are: cigarette smoking, diabetes, hypertension, hyperlipidemia and a family history of early atherosclerosis. Obesity, sedentary lifestyle, syndrome X, cocaine use, chronic hemodialysis and renal disease, radiation exposure, endothelial dysfunction, elevated plasma homocysteine, elevated plasma lipoprotein a, elevated CRP, infection with CMV and chlamydia infection are less well established, controversial, or putative risk factors for the disease. Risk factors are known to be associated with patient prognosis and outcome, but the contribution of each risk factor to the future clinical state of a patient is difficult to measure. The effect of risk factor modification (e.g., smoking cessation, treatment of hypercholesterolemia) on overall risk and future outcome is also difficult to quantify.

Diagnostic nucleotide sets may be developed that correlate with these risk factors, or the sum of the risk factors for use in predicting occurrence of coronary artery disease. Disease criteria correspond to risk factors, as exemplified above, as well as to occurrence of coronary artery disease. Alternatively, or in addition, disease criteria corresponding to risk factors may contribute to a numerical weighted average, which itself may be treated as a disease criteria and may be used for correlation to

gene expression. In another aspect, risk factors may be modified in a patient, e.g. by behavioral change, or decrease cholesterol through chemotherapy in patients with hypocholesteremia. Disease criteria may further correspond to diagnosis of coronary disease.

### Restenosis

Angioplasty can re-open a narrowed artery. However, the long-term success rate of these procedures is limited by restenosis, the re-narrowing of a coronary artery after an angioplasty. Currently, about 50% of treated arteries re-narrow after angioplasty and about 30% re-narrow after standard stent placement. Restenosis usually becomes apparent within 3 months of the angioplasty procedure. Presently, there is no reliable method for predicting which arteries will succumb to restenosis, though small vessels tend to be more likely to re-narrow, as do vessels of diabetics, renal patients and vessels exposed to high-pressure balloon inflation during balloon angioplasty.

Diagnostic nucleotide sets are developed and validated to predict restenosis in patients before undergoing angioplasty or shortly thereafter. Disease criteria correspond to angiogram testing (diagnosis of restenosis), as well as clinical symptoms of restenosis, e.g. chest pain due to re-narrowing of the artery, as confirmed by angiogram. Anti-restenotic drug therapy is also identified for each patient. The diagnostic nucleotide set are useful to identify patients about to undergo angioplasty who would benefit from stents, radiation-emitting stents, and anti-restenotic drug delivering stents. Patients that would benefit from post-angioplasty anti-restenotic drug therapy may also be identified.

### Rheumatoid Arthritis

Rheumatoid arthritis (RA) affects about two million patients in the US and is a chronic and debilitating inflammatory arthritis, particularly involving pain and destruction of the joints. RA often goes undiagnosed because patients may have no pain, but the disease is actively destroying the joint. Other patients are known to have RA, and are treated to alleviate symptoms, but the rate of progression of joint destruction can't easily be monitored. Drug therapy is available, but the most effective medicines are toxic (e.g., steroids, methotrexate) and thus need to be used with caution. A new class of medications (TNF blockers) is very effective, but the drugs are expensive, have side effects, and not all patients respond. Side-effects are

common and include immune suppression, toxicity to organ systems, allergy and metabolic disturbances.

Diagnostic nucleotide sets of the invention are developed and validated for use in diagnosis and treatment of RA. Disease criteria correspond to disease symptoms (e.g., joint pain, joint swelling and joint stiffness and any of the American College for Rheumatology criteria for the diagnosis of RA, see Arnett et al (1988) Arthr. Rheum. 31:315-24), progression of joint destruction (e.g. as measured by serial hand radiographs, assessment of joint function and mobility), surgery, need for medication, additional diagnoses of inflammatory and non-inflammatory conditions, and clinical laboratory measurements including complete blood counts with differentials, CRP, ESR, ANA, Serum IL6, Soluble CD40 ligand, LDL, HDL, Anti-DNA antibodies, rheumatoid factor, C3, C4, serum creatinine. In addition, or alternatively, disease criteria correspond to response to drug therapy and presence or absence of side-effects or measures of improvement exemplified by the American College of Rheumatology "20%" and "50%" response/improvement rates. See Felson et al (1995) Arthr Rheum 38:531-37. Diagnostic nucleotide sets are identified that monitor and predict disease progression including flaring (acute worsening of disease accompanied by joint pain or other symptoms), response to drug treatment and likelihood of side-effects.

In addition to peripheral leukocytes, surgical specimens of rheumatoid joints can be used for leukocyte expression profiling experiments. Members of diagnostic nucleotide sets are candidates for leukocyte target nucleotide sequences, e.g. as a candidate drug target for rheumatoid arthritis.

#### Systemic Lupus Erythematosus (SLE)

SLE is a chronic, systemic inflammatory disease characterized by dysregulation of the immune system, which effects up to 2 million patients in the US. Symptoms of SLE include rashes, joint pain, abnormal blood counts, renal dysfunction and damage, infections, CNS disorders, arthralgias and autoimmunity. Patients may also have early onset atherosclerosis.

Diagnostic nucleotide sets are identified and validated for use in diagnosis and monitoring of SLE activity and progression. Disease criteria correspond to clinical data, e.g. symptom rash, joint pain, malaise, rashes, blood counts (white and red), tests of renal function e.g. creatinine, blood urea nitrogen (hereinafter, "bun") creative clearance, data obtained from laboratory tests including complete blood counts with differentials, CRP, ESR, ANA, Serum IL6, Soluble CD40 ligand, LDL, HDL, Anti-

DNA antibodies, rheumatoid factor, C3, C4, serum creatinine and any medication levels, the need for pain medications, cumulative doses or immunosuppressive therapy, symptoms or any manifestation of carotid atherosclerosis (e.g. ultrasound diagnosis or any other manifestations of the disease), data from surgical procedures such as gross operative findings and pathological evaluation of resected tissues and biopsies (e.g., renal, CNS), information on pharmacological therapy and treatment changes, clinical diagnoses of disease "flare", hospitalizations, death, quantitative joint exams, results from health assessment questionnaires (HAQs), and other clinical measures of patient symptoms and disability. In addition, disease criteria correspond to the clinical score known as SLEDAI (Bombadier C, Gladman DD, Urowitz MB, Caron D, Chang CH and the Committee on Prognosis Studies in SLE: Derivation of the SLEDAI for Lupus Patients. Arthritis Rheum 35:630-640, 1992.). Diagnostic nucleotide sets may be useful for diagnosis of SLE, monitoring disease progression including progressive renal dysfunction, carotid atherosclerosis and CNS dysfunction, and predicting occurrence of side-effects, for example.

#### Dermatomyositis/Polymyositis

Dermatomyositis/Polymyositis is an autoimmune/inflammatory disease of muscle and skin. Disease criteria correspond to clinical markers of muscle damage (e.g. creatine kinase or myoglobin), muscle strength, symptoms, skin rash or muscle biopsy results.

#### Diabetes

Insulin dependent (type I) diabetes is caused by an autoimmune attack of insulin producing cells in the pancreas. The disease does not manifest until greater than 90% of the insulin producing cells are destroyed. Diagnostic nucleotide sets are developed and validated for use in detecting diabetes before it is clinically evident. Disease criteria correspond to future occurrence of diabetes, glucose tolerance, serum glucose level, and levels of hemoglobin A1c or other markers.

#### Inflammatory Bowel Disease (Crohn's and Ulcerative Colitis)

Inflammatory Bowel Disease, e.g., Crohn's Disease and Ulcerative Colitis, are chronic inflammatory diseases of the intestine. Together they effect at least 1 million in the US. Currently, diagnosis and monitoring is accomplished by intestinal endoscopy with or without a biopsy. Steroids and other immune suppressing drugs are useful in treating these diseases, but these drugs cause toxicity and severe side-effects. Diagnostic nucleotide sets are developed for use in diagnosis and monitoring

of disease progression. Disease criteria correspond to clinical criteria, e.g. symptoms of abdominal or pelvic pain, diarrhea, fever and rectal bleeding. Alternatively, or in addition, disease criteria correspond to endoscopy results or bowel biopsy results.

#### Osteoarthritis

20-40 million patients in the US have osteoarthritis. Patient groups are heterogeneous, with a subset of patients having earlier onset, more aggressive joint damage, involving more inflammation (leukocyte infiltration) leukocyte diagnostics can be used to distinguish osteoarthritis from rheumatoid arthritis, define likelihood and degree of response to NSAID therapy (non-steroidal anti-inflammatory drugs). Rate of progression of joint damage can also be assessed. Diagnostic nucleotide sets may be developed for use in selection and titration of treatment therapies. Disease criteria correspond to response to therapy, and disease progression using certain therapies, need for joint surgery, joint pain and disability.

#### Asthma

Asthma is a chronic inflammatory disease of the lungs. Clinical symptoms include chronic or acute airflow obstruction. Patients are treated with inhaled steroids or bronchodilators or systemic steroids and other medication, and disease progression is monitored clinically using a peak air flow meter or formal pulmonary function tests. Even with these tests, it is difficult to predict which patients are at highest risk for acute worsening of airway obstruction (an "asthma attack"). Diagnostic nucleotide sets are developed for use in predicting likelihood of acute asthma attacks, and for use in choosing and titrating drug therapy. Disease criteria correspond to pulmonary function testing, peak flow meter measurements, ER visits, inhaler use, subjective patient assessment of response to therapy, hospitalization and need for steroids.

#### Other inflammatory diseases:

Other inflammatory disease suitable for development and use of diagnostic nucleotide sets are polymyalgia rheumatica, temporal arteritis, polyarteritis nodosa, Wegener's granulomatosis, Whipple's disease, heterotopic ossification, Periprosthetic Osteolysis, Sepsis/ARDS, scleroderma, Grave's disease, Hashimoto's thyroiditis, psoriasis numerous others (See Table 1).

#### ***Viral diseases***

Diagnostic leukocyte nucleotide sets may be developed and validated for use in diagnosing viral disease. In another aspect, viral nucleotide sequences may be

added to a leukocyte nucleotide set for use in diagnosis of viral diseases. Alternatively, viral nucleotide sets and leukocyte nucleotides sets may be used sequentially.

#### Epstein-Barr virus (EBV)

EBV causes a variety of diseases such as mononucleosis, B-cell lymphoma, and pharyngeal carcinoma. It infects mononuclear cells and circulating atypical lymphocytes are a common manifestation of infection. Peripheral leukocyte gene expression is altered by infection. Transplant recipients and patients who are immunosuppressed are at increased risk for EBV-associated lymphoma.

Diagnostic nucleotide sets may be developed and validated for use in diagnosis and monitoring of EBV. In one aspect, the diagnostic nucleotide set is a leukocyte nucleotide set. Alternatively, EBV nucleotide sequences are added to a leukocyte nucleotide set, for use in diagnosing EBV. Disease criteria correspond with diagnosis of EBV, and, in patients who are EBV-sero-positive, presence (or prospective occurrence ) of EBV-related illnesses such as mononucleosis, and EBV-associated lymphoma. Diagnostic nucleotide sets are useful for diagnosis of EBV, and prediction of occurrence of EBV-related illnesses.

#### Cytomegalovirus (CMV)

Cytomegalovirus cause inflammation and disease in almost any tissue, particularly the colon, lung, bone marrow and retina, and is a very important cause of disease in immunosuppressed patients, e.g. transplant, cancer, AIDS. Many patients are infected with or have been exposed to CMV, but not all patients develop clinical disease from the virus. Also, CMV negative recipients of allografts that come from CMV positive donors are at high risk for CMV infection. As immunosuppressive drugs are developed and used, it is increasingly important to identify patients with current or impending clinical CMV disease, because the potential benefit of immunosuppressive therapy must be balanced with the increased rate of clinical CMV infection and disease that may result from the use of immunosuppression therapy. CMV may also play a role in the occurrence of atherosclerosis or restenosis after angioplasty.

Diagnostic nucleotide sets are developed for use in diagnosis and monitoring of CMV infection or re-activation of CMV infection. In one aspect, the diagnostic nucleotide set is a leukocyte nucleotide set. In another aspect, CMV nucleotide sequences are added to a leukocyte nucleotide set, for use in diagnosing CMV.



Disease criteria correspond to diagnosis of CMV (e.g., sero-positive state) and presence of clinically active CMV. Disease criteria may also correspond to prospective data, e.g. the likelihood that CMV will become clinically active or impending clinical CMV infection. Antiviral medications are available and diagnostic nucleotide sets can be used to select patients for early treatment, chronic suppression or prophylaxis of CMV activity.

#### Hepatitis B and C

These chronic viral infections affect about 1.25 and 2.7 million patients in the US, respectively. Many patients are infected, but suffer no clinical manifestations. Some patients with infection go on to suffer from chronic liver failure, cirrhosis and hepatic carcinoma.

Diagnostic nucleotide sets are developed for use in diagnosis and monitoring of HBV or HCV infection. In one aspect, the diagnostic nucleotide set is a leukocyte nucleotide set. In another aspect, viral nucleotide sequences are added to a leukocyte nucleotide set, for use in diagnosing the virus and monitoring progression of liver disease. Disease criteria correspond to diagnosis of the virus (e.g., sero-positive state or other disease symptoms). Alternatively, disease criteria correspond to liver damage, e.g., elevated alkaline phosphatase, ALT, AST or evidence of ongoing hepatic damage on liver biopsy. Alternatively, disease criteria correspond to serum liver tests (AST, ALT, Alkaline Phosphatase, GGT, PT, bilirubin), liver biopsy, liver ultrasound, viral load by serum PCR, cirrhosis, hepatic cancer, need for hospitalization or listing for liver transplant. Diagnostic nucleotide sets are used to diagnose HBV and HCV, and to predict likelihood of disease progression. Antiviral therapeutic usage, such as Interferon gamma and Ribavirin, can also be disease criteria.

#### HIV

HIV infects T cells and certainly causes alterations in leukocyte expression. Diagnostic nucleotide sets are developed for diagnosis and monitoring of HIV. In one aspect, the diagnostic nucleotide set is a leukocyte nucleotide set. In another aspect, viral nucleotide sequences are added to a leukocyte nucleotide set, for use in diagnosing the virus. Disease criteria correspond to diagnosis of the virus (e.g., sero-positive state). In addition, disease criteria correspond to viral load, CD4 T cell counts, opportunistic infection, response to antiretroviral therapy, progression to AIDS, rate of progression and the occurrence of other HIV related outcomes (e.g.,

malignancy, CNS disturbance). Response to antiretrovirals may also be disease criteria.

### ***Pharmacogenomics***

Pharmacogenomics is the study of the individual propensity to respond to a particular drug therapy (combination of therapies). In this context, response can mean whether a particular drug will work on a particular patient, e.g. some patients respond to one drug but not to another drug. Response can also refer to the likelihood of successful treatment or the assessment of progress in treatment. Titration of drug therapy to a particular patient is also included in this description, e.g. different patients can respond to different doses of a given medication. This aspect may be important when drugs with side-effects or interactions with other drug therapies are contemplated.

Diagnostic nucleotide sets are developed and validated for use in assessing whether a patient will respond to a particular therapy and/or monitoring response of a patient to drug therapy(therapies). Disease criteria correspond to presence or absence of clinical symptoms or clinical endpoints, presence of side-effects or interaction with other drug(s). The diagnostic nucleotide set may further comprise nucleotide sequences that are targets of drug treatment or markers of active disease.

### ***Validation and accuracy of diagnostic nucleotide set using correlation analysis***

Prior to widespread application of the diagnostic probe sets of the invention, the predictive value of the probe set is validated.

Typically, the oligonucleotide sequence of each probe is confirmed, e.g. by DNA sequencing using an oligonucleotide-specific primer. Partial sequence obtained is generally sufficient to confirm the identity of the oligonucleotide probe. Alternatively, a complementary polynucleotide is fluorescently labeled and hybridized to the array, or to a different array containing a resynthesized version of the oligo nucleotide probe, and detection of the correct probe is confirmed.

Typically, validation is performed by statistically evaluating the accuracy of the correspondence between the molecular signature for a diagnostic probe set and a selected indicator. For example, the expression differential for a nucleotide sequence between two subject classes can be expressed as a simple ratio of relative expression. The expression of the nucleotide sequence in subjects with selected indicator can be

compared to the expression of that nucleotide sequence in subjects without the indicator, as described in the following equations.

$\sum E_x a_i / N = E_x A$  the average expression of nucleotide sequence x in the members of group A;

$\sum E_x b_i / M = E_x B$  the average expression of nucleotide sequence x in the members of group B;

$E_x A / E_x B = \Delta E_x AB$  the average differential expression of nucleotide sequence x between groups A

and B:

where  $\sum$  indicates a sum;  $E_x$  is the expression of nucleotide sequence x relative to a standard;  $a_i$  are the individual members of group A, group A has N members;  $b_i$  are the individual members of group B, group B has M members.

The expression of at least two nucleotide sequences, e.g., nucleotide sequence X and nucleotide sequence Y are measured relative to a standard in at least one subject of group A (e.g., with a disease) and group B (e.g., without the disease). Ideally, for purposes of validation the indicator is independent from (i.e., not assigned based upon) the expression pattern. Alternatively, a minimum threshold of gene expression for nucleotide sequences X and Y, relative to the standard, are designated for assignment to group A. For nucleotide sequence x, this threshold is designated  $\Delta E_x$ , and for nucleotide sequence y, the threshold is designated  $\Delta E_y$ .

The following formulas are used in the calculations below:

Sensitivity = (true positives/true positives + false negatives)

Specificity = (true negatives/true negatives + false positives)

If, for example, expression of nucleotide sequence x above a threshold:  $x > \Delta E_x$ , is observed for 80/100 subjects in group A and for 10/100 subjects in group B, the sensitivity of nucleotide sequence x for the assignment to group A, at the given expression threshold  $\Delta E_x$ , is 80%, and the specificity is 90%.

If the expression of nucleotide sequence y is  $> \Delta E_y$  in 80/100 subjects in group A, and in 10/100 subjects in group B, then, similarly the sensitivity of nucleotide sequence y for the assignment to group A at the given threshold  $\Delta E_y$  is 80% and the specificity is 90%. If in addition, 60 of the 80 subjects in group A that meet the expression threshold for nucleotide sequence y also meet the expression threshold  $\Delta E_x$  and that 5 of the 10 subjects in group B that meet the expression

threshold for nucleotide sequence y also meet the expression threshold  $\Delta Ex$ , the sensitivity of the test ( $x > \Delta Ex$  and  $y > \Delta Ey$ ) for assignment of subjects to group A is 60% and the specificity is 95%.

Alternatively, if the criteria for assignment to group A are change to: Expression of  $x > \Delta Ex$  or expression of  $y > \Delta Ey$ , the sensitivity approaches 100% and the specificity is 85%.

Clearly, the predictive accuracy of any diagnostic probe set is dependent on the minimum expression threshold selected. The expression of nucleotide sequence X (relative to a standard) is measured in subjects of groups A (with disease) and B (without disease). The minimum threshold of nucleotide sequence expression for x, required for assignment to group A is designated  $\Delta Ex$  1.

If 90/100 patients in group A have expression of nucleotide sequence  $x > \Delta Ex$  1 and 20/100 patients in group B have expression of nucleotide sequence  $x > \Delta Ex$  1, then the sensitivity of the expression of nucleotide sequence x (using  $\Delta Ex$  1 as a minimum expression threshold) for assignment of patients to group A will be 90% and the specificity will be 80%.

Altering the minimum expression threshold results in an alteration in the specificity and sensitivity of the nucleotide sequences in question. For example, if the minimum expression threshold of nucleotide sequence x for assignment of subjects to group A is lowered to  $\Delta Ex$  2, such that 100/100 subjects in group A and 40/100 subjects in group B meet the threshold, then the sensitivity of the test for assignment of subjects to group A will be 100% and the specificity will be 60%.

Thus, for 2 nucleotide sequences X and Y: the expression of nucleotide sequence x and nucleotide sequence y (relative to a standard) are measured in subjects belonging to groups A (with disease) and B (without disease). Minimum thresholds of nucleotide sequence expression for nucleotide sequences X and Y (relative to common standards) are designated for assignment to group A. For nucleotide sequence x, this threshold is designated  $\Delta Ex$  1 and for nucleotide sequence y, this threshold is designated  $\Delta Ey$  1.

If in group A, 90/100 patients meet the minimum requirements of expression  $\Delta Ex$  1 and  $\Delta Ey$  1, and in group B, 10/100 subjects meet the minimum requirements of expression  $\Delta Ex$  1 and  $\Delta Ey$  1, then the sensitivity of the test for assignment of subjects to group A is 90% and the specificity is 90%.

Increasing the minimum expression thresholds for X and Y to  $\Delta Ex2$  and  $\Delta Ey2$ , such that in group A, 70/100 subjects meet the minimum requirements of expression  $\Delta Ex2$  and  $\Delta Ey2$ , and in group B, 3/100 subjects meet the minimum requirements of expression  $\Delta Ex2$  and  $\Delta Ey2$ . Now the sensitivity of the test for assignment of subjects to group A is 70% and the specificity is 97%.

If the criteria for assignment to group A is that the subject in question meets either threshold,  $\Delta Ex2$  or  $\Delta Ey2$ , and it is found that 100/100 subjects in group A meet the criteria and 20/100 subjects in group B meet the criteria, then the sensitivity of the test for assignment to group A is 100% and the specificity is 80%.

Individual components of a diagnostic probe set each have a defined sensitivity and specificity for distinguishing between subject groups. Such individual nucleotide sequences can be employed in concert as a diagnostic probe set to increase the sensitivity and specificity of the evaluation. The database of molecular signatures is queried by algorithms to identify the set of nucleotide sequences (i.e., corresponding to members of the probe set) with the highest average differential expression between subject groups. Typically, as the number of nucleotide sequences in the diagnostic probe set increases, so does the predictive value, that is, the sensitivity and specificity of the probe set. When the probe sets are defined they may be used for diagnosis and patient monitoring as discussed below. The diagnostic sensitivity and specificity of the probe sets for the defined use can be determined for a given probe set with specified expression levels as demonstrated above. By altering the expression threshold required for the use of each nucleotide sequence as a diagnostic, the sensitivity and specificity of the probe set can be altered by the practitioner. For example, by lowering the magnitude of the expression differential threshold for each nucleotide sequence in the set, the sensitivity of the test will increase, but the specificity will decrease. As is apparent from the foregoing discussion, sensitivity and specificity are inversely related and the predictive accuracy of the probe set is continuous and dependent on the expression threshold set for each nucleotide sequence. Although sensitivity and specificity tend to have an inverse relationship when expression thresholds are altered, both parameters can be increased as nucleotide sequences with predictive value are added to the diagnostic nucleotide set. In addition a single or a few markers may not be reliable expression markers across a population of patients. This is because of the variability in expression and measurement of expression that exists between measurements, individuals and

individuals over time. Inclusion of a large number of candidate nucleotide sequences or large numbers of nucleotide sequences in a diagnostic nucleotide set allows for this variability as not all nucleotide sequences need to meet a threshold for diagnosis. Generally, more markers are better than a single marker. If many markers are used to make a diagnosis, the likelihood that all expression markers will not meet some thresholds based upon random variability is low and thus the test will give fewer false negatives.

It is appreciated that the desired diagnostic sensitivity and specificity of the diagnostic nucleotide set may vary depending on the intended use of the set. For example, in certain uses, high specificity and high sensitivity are desired. For example, a diagnostic nucleotide set for predicting which patient population may experience side effects may require high sensitivity so as to avoid treating such patients. In other settings, high sensitivity is desired, while reduced specificity may be tolerated. For example, in the case of a beneficial treatment with few side effects, it may be important to identify as many patients as possible (high sensitivity) who will respond to the drug, and treatment of some patients who will not respond is tolerated. In other settings, high specificity is desired and reduced sensitivity may be tolerated. For example, when identifying patients for an early-phase clinical trial, it is important to identify patients who may respond to the particular treatment. Lower sensitivity is tolerated in this setting as it merely results in reduced patients who enroll in the study or requires that more patients are screened for enrollment.

*Methods of using diagnostic nucleotide sets.*

The invention also provide methods of using the diagnostic nucleotide sets to: diagnose disease; assess severity of disease; predict future occurrence of disease; predict future complications of disease; determine disease prognosis; evaluate the patient's risk, or "stratify" a group of patients; assess response to current drug therapy; assess response to current non-pharmacological therapy; determine the most appropriate medication or treatment for the patient; predict whether a patient is likely to respond to a particular drug; and determine most appropriate additional diagnostic testing for the patient, among other clinically and epidemiologically relevant applications.

The nucleotide sets of the invention can be utilized for a variety of purposes by physicians, healthcare workers, hospitals, laboratories, patients, companies and

other institutions. As indicated previously, essentially any disease, condition, or status for which at least one nucleotide sequence is differentially expressed in leukocyte populations (or sub-populations) can be evaluated, e.g., diagnosed, monitored, etc. using the diagnostic nucleotide sets and methods of the invention. In addition to assessing health status at an individual level, the diagnostic nucleotide sets of the present invention are suitable for evaluating subjects at a "population level," e.g., for epidemiological studies, or for population screening for a condition or disease.

#### Collection and preparation of sample

RNA, protein and/or DNA is prepared using methods well-known in the art, as further described herein. It is appreciated that subject samples collected for use in the methods of the invention are generally collected in a clinical setting, where delays may be introduced before RNA samples are prepared from the subject samples of whole blood, e.g. the blood sample may not be promptly delivered to the clinical lab for further processing. Further delay may be introduced in the clinical lab setting where multiple samples are generally being processed at any given time. For this reason, methods which feature lengthy incubations of intact leukocytes at room temperature are not preferred, because the expression profile of the leukocytes may change during this extended time period. For example, RNA can be isolated from whole blood using a phenol/guanidine isothiocyanate reagent or another direct whole-blood lysis method, as described in, e.g., U.S. Patent Nos. 5,346,994 and 4,843,155. This method may be less preferred under certain circumstances because the large majority of the RNA recovered from whole blood RNA extraction comes from erythrocytes since these cells outnumber leukocytes 1000:1. Care must be taken to ensure that the presence of erythrocyte RNA and protein does not introduce bias in the RNA expression profile data or lead to inadequate sensitivity or specificity of probes.

Alternatively, intact leukocytes may be collected from whole blood using a lysis buffer that selectively lyses erythrocytes, but not leukocytes, as described, e.g., in (U.S. Patent Nos. 5,973,137, and 6,020,186). Intact leukocytes are then collected by centrifugation, and leukocyte RNA is isolated using standard protocols, as described herein. However, this method does not allow isolation of sub-populations of leukocytes, e.g. mononuclear cells, which may be desired. In addition, the expression profile may change during the lengthy incubation in lysis buffer, especially

in a busy clinical lab where large numbers of samples are being prepared at any given time.

Alternatively, specific leukocyte cell types can be separated using density gradient reagents (Boyum, A, 1968.). For example, mononuclear cells may be separated from whole blood using density gradient centrifugation, as described, e.g., in U.S. Patents Nos. 4190535, 4350593, 4751001, 4818418, and 5053134. Blood is drawn directly into a tube containing an anticoagulant and a density reagent (such as Ficoll or Percoll). Centrifugation of this tube results in separation of blood into an erythrocyte and granulocyte layer, a mononuclear cell suspension, and a plasma layer. The mononuclear cell layer is easily removed and the cells can be collected by centrifugation, lysed, and frozen. Frozen samples are stable until RNA can be isolated. Density centrifugation, however, must be conducted at room temperature, and if processing is unduly lengthy, such as in a busy clinical lab, the expression profile may change.

The quality and quantity of each clinical RNA sample is desirably checked before amplification and labeling for array hybridization, using methods known in the art. For example, one microliter of each sample may be analyzed on a Bioanalyzer (Agilent 2100 Palo Alto, CA. USA) using an RNA 6000 nano LabChip (Caliper, Mountain View, CA. USA). Degraded RNA is identified by the reduction of the 28S to 18S ribosomal RNA ratio and/or the presence of large quantities of RNA in the 25-100 nucleotide range.

It is appreciated that the RNA sample for use with a diagnostic nucleotide set may be produced from the same or a different cell population, sub-population and/or cell type as used to identify the diagnostic nucleotide set. For example, a diagnostic nucleotide set identified using RNA extracted from mononuclear cells may be suitable for analysis of RNA extracted from whole blood or mononuclear cells, depending on the particular characteristics of the members of the diagnostic nucleotide set.

Generally, diagnostic nucleotide sets must be tested and validated when used with RNA derived from a different cell population, sub-population or cell type than that used when obtaining the diagnostic gene set. Factors such as the cell-specific gene expression of diagnostic nucleotide set members, redundancy of the information provided by members of the diagnostic nucleotide set, expression level of the member of the diagnostic nucleotide set, and cell-specific alteration of expression of a member of the diagnostic nucleotide set will contribute to the usefulness of using a different



RNA source than that used when identifying the members of the diagnostic nucleotide set. It is appreciated that it may be desirable to assay RNA derived from whole blood, obviating the need to isolate particular cell types from the blood.

**Rapid method of RNA extraction suitable for production in a clinical setting of high quality RNA for expression profiling**

In a clinical setting, obtaining high quality RNA preparations suitable for expression profiling, from a desired population of leukocytes poses certain technical challenges, including: the lack of capacity for rapid, high-throughput sample processing in the clinical setting, and the possibility that delay in processing (in a busy lab or in the clinical setting) may adversely affect RNA quality, e.g. by a permitting the expression profile of certain nucleotide sequences to shift. Also, use of toxic and expensive reagents, such as phenol, may be disfavored in the clinical setting due to the added expense associated with shipping and handling such reagents.

A useful method for RNA isolation for leukocyte expression profiling would allow the isolation of monocyte and lymphocyte RNA in a timely manner, while preserving the expression profiles of the cells, and allowing inexpensive production of reproducible high-quality RNA samples. Accordingly, the invention provides a method of adding inhibitor(s) of RNA transcription and/or inhibitor(s) of protein synthesis, such that the expression profile is "frozen" and RNA degradation is reduced. A desired leukocyte population or sub-population is then isolated, and the sample may be frozen or lysed before further processing to extract the RNA. Blood is drawn from subject population and exposed to ActinomycinD (to a final concentration of 10 ug/ml) to inhibit transcription, and cycloheximide (to a final concentration of 10 ug/ml) to inhibit protein synthesis. The inhibitor(s) can be injected into the blood collection tube in liquid form as soon as the blood is drawn, or the tube can be manufactured to contain either lyophilized inhibitors or inhibitors that are in solution with the anticoagulant. At this point, the blood sample can be stored at room temperature until the desired leukocyte population or sub-population is isolated, as described elsewhere. RNA is isolated using standard methods, e.g., as described above, or a cell pellet or extract can be frozen until further processing of RNA is convenient.

The invention also provides a method of using a low-temperature density gradient for separation of a desired leukocyte sample. In another embodiment, the invention provides the combination of use of a low-temperature density gradient and the use of transcriptional and/or protein synthesis inhibitor(s). A desired leukocyte population is separated using a density gradient solution for cell separation that maintains the required density and viscosity for cell separation at 0-4°C. Blood is drawn into a tube containing this solution and may be refrigerated before and during processing as the low temperatures slow cellular processes and minimize expression profile changes. Leukocytes are separated, and RNA is isolated using standard methods. Alternately, a cell pellet or extract is frozen until further processing of RNA is convenient. Care must be taken to avoid rewarming the sample during further processing steps.

Alternatively, the invention provides a method of using low-temperature density gradient separation, combined with the use of actinomycin A and cyclohexamide, as described above.

#### Assessing expression for diagnostics

Expression profiles for the set of diagnostic nucleotide sequences in a subject sample can be evaluated by any technique that determines the expression of each component nucleotide sequence. Methods suitable for expression analysis are known in the art, and numerous examples are discussed in the Sections titled "Methods of obtaining expression data" and "high throughput expression Assays", above.

In many cases, evaluation of expression profiles is most efficiently, and cost effectively, performed by analyzing RNA expression. Alternatively, the proteins encoded by each component of the diagnostic nucleotide set are detected for diagnostic purposes by any technique capable of determining protein expression, e.g., as described above. Expression profiles can be assessed in subject leukocyte sample using the same or different techniques as those used to identify and validate the diagnostic nucleotide set. For example, a diagnostic nucleotide set identified as a subset of sequences on a cDNA microarray can be utilized for diagnostic (or prognostic, or monitoring, etc.) purposes on the same array from which they were identified. Alternatively, the diagnostic nucleotide sets for a given disease or condition can be organized onto a dedicated sub-array for the indicated purpose. It is important to note that if diagnostic nucleotide sets are discovered using one

technology, e.g. RNA expression profiling, but applied as a diagnostic using another technology, e.g. protein expression profiling, the nucleotide sets must generally be validated for diagnostic purposes with the new technology. In addition, it is appreciated that diagnostic nucleotide sets that are developed for one use, e.g. to diagnose a particular disease, may later be found to be useful for a different application, e.g. to predict the likelihood that the particular disease will occur. Generally, the diagnostic nucleotide set will need to be validated for use in the second circumstance. As discussed herein, the sequence of diagnostic nucleotide set members may be amplified from RNA or cDNA using methods known in the art providing specific amplification of the nucleotide sequences.

***Identification of novel nucleotide sequences that are differentially expressed in leukocytes***

Novel nucleotide sequences that are differentially expressed in leukocytes are also part of the invention. Previously unidentified open reading frames may be identified in a library of differentially expressed candidate nucleotide sequences, as described above, and the DNA and predicted protein sequence may be identified and characterized as noted above. We identified unnamed (not previously described as corresponding to a gene, or an expressed gene) nucleotide sequences in the our candidate nucleotide library, depicted in Table 3A, 3B and the sequence listing. Accordingly, further embodiments of the invention are the isolated nucleic acids described in Tables 3A and 3B, and in the sequence listing. The novel differentially expressed nucleotide sequences of the invention are useful in the diagnostic nucleotide set of the invention described above, and are further useful as members of a diagnostic nucleotide set immobilized on an array. The novel partial nucleotide sequences may be further characterized using sequence tools and publically or privately accessible sequence databases, as is well known in the art: Novel differentially expressed nucleotide sequences may be identified as disease target nucleotide sequences, described below. Novel nucleotide sequences may also be used as imaging reagent, as further described below.

As used herein, "novel nucleotide sequence" refers to (a) a nucleotide sequence containing at least one of the DNA sequences disclosed herein (as shown in FIGS. Table 3A, 3B and the sequence listing); (b) any DNA sequence that encodes the amino acid sequence encoded by the DNA sequences disclosed herein; (c) any

DNA sequence that hybridizes to the complement of the coding sequences disclosed herein, contained within the coding region of the nucleotide sequence to which the DNA sequences disclosed herein (as shown in Table 3A, 3B and the sequence listing) belong, under highly stringent conditions, e.g., hybridization to filter-bound DNA in 0.5 M NaHPO<sub>4</sub>, 7% sodium dodecyl sulfate (SDS), 1 mM EDTA at 65° C, and washing in 0.1XSSC/0.1% SDS at 68° C. (Ausubel F. M. et al., eds., 1989, Current Protocols in Molecular Biology, Vol. I, Green Publishing Associates, Inc., and John Wiley & sons, Inc., New York, at p. 2.10.3), (d) any DNA sequence that hybridizes to the complement of the coding sequences disclosed herein, (as shown in Table 3A, 3B and the sequence listing) contained within the coding region of the nucleotide sequence to which DNA sequences disclosed herein (as shown in TABLES 3A, 3B and the sequence listing) belong, under less stringent conditions, such as moderately stringent conditions, e.g., washing in 0.2XSSC/0.1% SDS at 42°C. (Ausubel et al., 1989, supra), yet which still encodes a functionally equivalent gene product; and/or (e) any DNA sequence that is at least 90% identical, at least 80% identical or at least 70% identical to the coding sequences disclosed herein (as shown in TABLES 3A, 3B and the sequence listing), wherein % identity is determined using standard algorithms known in the art.

The invention also includes nucleic acid molecules, preferably DNA molecules, that hybridize to, and are therefore the complements of, the DNA sequences (a) through (c), in the preceding paragraph. Such hybridization conditions may be highly stringent or less highly stringent, as described above. In instances wherein the nucleic acid molecules are deoxyoligonucleotides ("oligos"), highly stringent conditions may refer, e.g., to washing in 6xSSC/0.05% sodium pyrophosphate at 37°C. (for 14-base oligos), 48°C. (for 17-base oligos), 55°C. (for 20-base oligos), and 60°C. (for 23-base oligos). These nucleic acid molecules may act as target nucleotide sequence antisense molecules, useful, for example, in target nucleotide sequence regulation and/or as antisense primers in amplification reactions of target nucleotide sequence nucleic acid sequences. Further, such sequences may be used as part of ribozyme and/or triple helix sequences, also useful for target nucleotide sequence regulation. Still further, such molecules may be used as components of diagnostic methods whereby the presence of a disease-causing allele, may be detected.

The invention also encompasses (a) DNA vectors that contain any of the foregoing coding sequences and/or their complements (i.e., antisense); (b) DNA expression vectors that contain any of the foregoing coding sequences operatively associated with a regulatory element that directs the expression of the coding sequences; and (c) genetically engineered host cells that contain any of the foregoing coding sequences operatively associated with a regulatory element that directs the expression of the coding sequences in the host cell. As used herein, regulatory elements include but are not limited to inducible and non-inducible promoters, enhancers, operators and other elements known to those skilled in the art that drive and regulate expression. The invention includes fragments of any of the DNA sequences disclosed herein. Fragments of the DNA sequences may be at least 5, at least 10, at least 15, at least 19 nucleotides, at least 25 nucleotides, at least 50 nucleotides, at least 100 nucleotides, at least 200, at least 500, or larger.

In addition to the nucleotide sequences described above, homologues of such sequences, as may, for example be present in other species, may be identified and may be readily isolated, without undue experimentation, by molecular biological techniques well known in the art, as well as use of gene analysis tools described above, and e.g., in Example 4. Further, there may exist nucleotide sequences at other genetic loci within the genome that encode proteins which have extensive homology to one or more domains of such gene products. These nucleotide sequences may also be identified via similar techniques.

For example, the isolated differentially expressed nucleotide sequence may be labeled and used to screen a cDNA library constructed from mRNA obtained from the organism of interest. Hybridization conditions will be of a lower stringency when the cDNA library was derived from an organism different from the type of organism from which the labeled sequence was derived. Alternatively, the labeled fragment may be used to screen a genomic library derived from the organism of interest, again, using appropriately stringent conditions. Such low stringency conditions will be well known to those of skill in the art, and will vary predictably depending on the specific organisms from which the library and the labeled sequences are derived. For guidance regarding such conditions see, for example, Sambrook et al., 1989, *Molecular Cloning, A Laboratory Manual*, Cold Springs Harbor Press, N.Y.; and Ausubel et al., 1989, *Current Protocols in Molecular Biology*, Green Publishing Associates and Wiley Interscience, N.Y.

Novel nucleotide products include those proteins encoded by the novel nucleotide sequences described, above. Specifically, novel gene products may include polypeptides encoded by the novel nucleotide sequences contained in the coding regions of the nucleotide sequences to which DNA sequences disclosed herein (in TABLES 3A, 3B and the sequence listing).

In addition, novel protein products of novel nucleotide sequences may include proteins that represent functionally equivalent gene products. Such an equivalent novel gene product may contain deletions, additions or substitutions of amino acid residues within the amino acid sequence encoded by the novel nucleotide sequences described, above, but which result in a silent change, thus producing a functionally equivalent novel nucleotide sequence product. Amino acid substitutions may be made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, and/or the amphipathic nature of the residues involved.

For example, nonpolar (hydrophobic) amino acids include alanine, leucine, isoleucine, valine, proline, phenylalanine, tryptophan, and methionine; polar neutral amino acids include glycine, serine, threonine, cysteine, tyrosine, asparagine, and glutamine; positively charged (basic) amino acids include arginine, lysine, and histidine; and negatively charged (acidic) amino acids include aspartic acid and glutamic acid. "Functionally equivalent", as utilized herein, refers to a protein capable of exhibiting a substantially similar *in vivo* activity as the endogenous novel gene products encoded by the novel nucleotide described, above.

The novel gene products (protein products of the novel nucleotide sequences) may be produced by recombinant DNA technology using techniques well known in the art. Thus, methods for preparing the novel gene polypeptides and peptides of the invention by expressing nucleic acid encoding novel nucleotide sequences are described herein. Methods which are well known to those skilled in the art can be used to construct expression vectors containing novel nucleotide sequence protein coding sequences and appropriate transcriptional/translational control signals. These methods include, for example, *in vitro* recombinant DNA techniques, synthetic techniques and *in vivo* recombination/genetic recombination. See, for example, the techniques described in Sambrook et al., 1989, *supra*, and Ausubel et al., 1989, *supra*. Alternatively, RNA capable of encoding novel nucleotide sequence protein sequences may be chemically synthesized using, for example, synthesizers. See, for example,

the techniques described in "Oligonucleotide Synthesis", 1984, Gait, M. J. ed., IRL Press, Oxford.

A variety of host-expression vector systems may be utilized to express the novel nucleotide sequence coding sequences of the invention. Such host-expression systems represent vehicles by which the coding sequences of interest may be produced and subsequently purified, but also represent cells which may, when transformed or transfected with the appropriate nucleotide coding sequences, exhibit the novel protein encoded by the novel nucleotide sequence of the invention in situ. These include but are not limited to microorganisms such as bacteria (e.g., *E. coli*, *B. subtilis*) transformed with recombinant bacteriophage DNA, plasmid DNA or cosmid DNA expression vectors containing novel nucleotide sequence protein coding sequences; yeast (e.g. *Saccharomyces*, *Pichia*) transformed with recombinant yeast expression vectors containing the novel nucleotide sequence protein coding sequences; insect cell systems infected with recombinant virus expression vectors (e.g., baculovirus) containing the novel nucleotide sequence protein coding sequences; plant cell systems infected with recombinant virus expression vectors (e.g., cauliflower mosaic virus, CaMV; tobacco mosaic virus, TMV) or transformed with recombinant plasmid expression vectors (e.g., Ti plasmid) containing novel nucleotide sequence protein coding sequences; or mammalian cell systems (e.g. COS, CHO, BHK, 293, 3T3) harboring recombinant expression constructs containing promoters derived from the genome of mammalian cells (e.g., metallothionein promoter) or from mammalian viruses (e.g., the adenovirus late promoter; the vaccinia virus 7.5 K promoter).

In bacterial systems, a number of expression vectors may be advantageously selected depending upon the use intended for the novel nucleotide sequence protein being expressed. For example, when a large quantity of such a protein is to be produced, for the generation of antibodies or to screen peptide libraries, for example, vectors which direct the expression of high levels of fusion protein products that are readily purified may be desirable. Such vectors include, but are not limited, to the *E. coli* expression vector pUR278 (Ruther et al., 1983, EMBO J. 2:1791), in which the novel nucleotide sequence protein coding sequence may be ligated individually into the vector in frame with the lac Z coding region so that a fusion protein is produced; pIN vectors (Inouye & Inouye, 1985, Nucleic Acids Res. 13:3101-3109; Van Heeke & Schuster, 1989, J. Biol. Chem. 264:5503-5509); and the likes of pGEX vectors may

also be used to express foreign polypeptides as fusion proteins with glutathione S-transferase (GST). In general, such fusion proteins are soluble and can easily be purified from lysed cells by adsorption to glutathione-agarose beads followed by elution in the presence of free glutathione. The pGEX vectors are designed to include thrombin or factor Xa protease cleavage sites so that the cloned target nucleotide sequence protein can be released from the GST moiety. Other systems useful in the invention include use of the FLAG epitope or the 6-HIS systems.

In an insect system, *Autographa californica* nuclear polyhedrosis virus (AcNPV) is used as a vector to express foreign nucleotide sequences. The virus grows in *Spodoptera frugiperda* cells. The novel nucleotide sequence coding sequence may be cloned individually into non-essential regions (for example the polyhedrin gene) of the virus and placed under control of an AcNPV promoter (for example the polyhedrin promoter). Successful insertion of novel nucleotide sequence coding sequence will result in inactivation of the polyhedrin gene and production of non-occluded recombinant virus (i.e., virus lacking the proteinaceous coat coded for by the polyhedrin gene). These recombinant viruses are then used to infect *Spodoptera frugiperda* cells in which the inserted nucleotide sequence is expressed. (E.g., see Smith et al., 1983, J. Virol. 46: 584; Smith, U.S. Pat. No. 4,215,051).

In mammalian host cells, a number of viral-based expression systems may be utilized. In cases where an adenovirus is used as an expression vector, the novel nucleotide sequence coding sequence of interest may be ligated to an adenovirus transcription/translation control complex, e.g., the late promoter and tripartite leader sequence. This chimeric nucleotide sequence may then be inserted in the adenovirus genome by in vitro or in vivo recombination. Insertion in a non-essential region of the viral genome (e.g., region E1 or E3) will result in a recombinant virus that is viable and capable of expressing novel nucleotide sequence encoded protein in infected hosts. (E.g., See Logan & Shenk, 1984, Proc. Natl. Acad. Sci. USA 81:3655-3659). Specific initiation signals may also be required for efficient translation of inserted novel nucleotide sequence coding sequences. These signals include the ATG initiation codon and adjacent sequences. In cases where an entire novel nucleotide sequence, including its own initiation codon and adjacent sequences, is inserted into the appropriate expression vector, no additional translational control signals may be needed. However, in cases where only a portion of the novel nucleotide sequence coding sequence is inserted, exogenous translational control signals, including,



perhaps, the ATG initiation codon, must be provided. Furthermore, the initiation codon must be in phase with the reading frame of the desired coding sequence to ensure translation of the entire insert. These exogenous translational control signals and initiation codons can be of a variety of origins, both natural and synthetic. The efficiency of expression may be enhanced by the inclusion of appropriate transcription enhancer elements, transcription terminators, etc. (see Bittner et al., 1987, *Methods in Enzymol.* 153:516-544).

In addition, a host cell strain may be chosen which modulates the expression of the inserted sequences, or modifies and processes the product of the nucleotide sequence in the specific fashion desired. Such modifications (e.g., glycosylation) and processing (e.g., cleavage) of protein products may be important for the function of the protein. Different host cells have characteristic and specific mechanisms for the post-translational processing and modification of proteins. Appropriate cell lines or host systems can be chosen to ensure the correct modification and processing of the foreign protein expressed. To this end, eukaryotic host cells which possess the cellular machinery for proper processing of the primary transcript, glycosylation, and phosphorylation of the gene product may be used. Such mammalian host cells include but are not limited to CHO, VERO, BHK, HeLa, COS, MDCK, 293, 3T3, WI38, etc.

For long-term, high-yield production of recombinant proteins, stable expression is preferred. For example, cell lines which stably express the novel nucleotide sequence encoded protein may be engineered. Rather than using expression vectors which contain viral origins of replication, host cells can be transformed with DNA controlled by appropriate expression control elements (e.g., promoter, enhancer, sequences, transcription terminators, polyadenylation sites, etc.), and a selectable marker. Following the introduction of the foreign DNA, engineered cells may be allowed to grow for 1-2 days in an enriched media, and then are switched to a selective media. The selectable marker in the recombinant plasmid confers resistance to the selection and allows cells to stably integrate the plasmid into their chromosomes and grow to form foci which in turn can be cloned and expanded into cell lines. This method may advantageously be used to engineer cell lines which express novel nucleotide sequence encoded protein. Such engineered cell lines may be particularly useful in screening and evaluation of compounds that affect the endogenous activity of the novel nucleotide sequence encoded protein.

A number of selection systems may be used, including but not limited to the herpes simplex virus thymidine kinase (Wigler, et al., 1977, Cell 11:223), hypoxanthine-guanine phosphoribosyltransferase (Szybalska & Szybalski, 1962, Proc. Natl. Acad. Sci. USA 48:2026), and adenine phosphoribosyltransferase (Lowy, et al., 1980, Cell 22:817) genes can be employed in tk-, hgp<sup>rt</sup>- or ap<sup>rt</sup>- cells, respectively. Also, antimetabolite resistance can be used as the basis of selection for dhfr, which confers resistance to methotrexate (Wigler, et al., 1980, Natl. Acad. Sci. USA 77:3567; O'Hare, et al., 1981, Proc. Natl. Acad. Sci. USA 78:1527); gpt, which confers resistance to mycophenolic acid (Mulligan & Berg, 1981, Proc. Natl. Acad. Sci. USA 78:2072); neo, which confers resistance to the aminoglycoside G-418 (Colberre-Garapin, et al., 1981, J. Mol. Biol. 150:1); and hyg<sup>r</sup>, which confers resistance to hygromycin (Santerre, et al., 1984, Gene 30:147) genes.

An alternative fusion protein system allows for the ready purification of non-denatured fusion proteins expressed in human cell lines (Janknecht, et al., 1991, Proc. Natl. Acad. Sci. USA 88: 8972-8976). In this system, the nucleotide sequence of interest is subcloned into a vaccinia recombination plasmid such that the nucleotide sequence's open reading frame is translationally fused to an amino-terminal tag consisting of six histidine residues. Extracts from cells infected with recombinant vaccinia virus are loaded onto Ni<sup>2+</sup>-nitriloacetic acid-agarose columns and histidine-tagged proteins are selectively eluted with imidazole-containing buffers.

Where recombinant DNA technology is used to produce the protein encoded by the novel nucleotide sequence for such assay systems, it may be advantageous to engineer fusion proteins that can facilitate labeling, immobilization and/or detection.

Indirect labeling involves the use of a protein, such as a labeled antibody, which specifically binds to the protein encoded by the novel nucleotide sequence. Such antibodies include but are not limited to polyclonal, monoclonal, chimeric, single chain, Fab fragments and fragments produced by an Fab expression library.

The invention also provides for antibodies to the protein encoded by the novel nucleotide sequences. Described herein are methods for the production of antibodies capable of specifically recognizing one or more novel nucleotide sequence epitopes. Such antibodies may include, but are not limited to polyclonal antibodies, monoclonal antibodies (mAbs), humanized or chimeric antibodies, single chain antibodies, Fab fragments, F(ab')<sub>2</sub> fragments, fragments produced by a Fab expression library, anti-idiotypic (anti-Id) antibodies, and epitope-binding fragments of any of the above.

Such antibodies may be used, for example, in the detection of a novel nucleotide sequence in a biological sample, or, alternatively, as a method for the inhibition of abnormal gene activity, for example, the inhibition of a disease target nucleotide sequence, as further described below. Thus, such antibodies may be utilized as part of cardiovascular or other disease treatment method, and/or may be used as part of diagnostic techniques whereby patients may be tested for abnormal levels of novel nucleotide sequence encoded proteins, or for the presence of abnormal forms of the such proteins.

For the production of antibodies to a novel nucleotide sequence, various host animals may be immunized by injection with a novel protein encoded by the novel nucleotide sequence, or a portion thereof. Such host animals may include but are not limited to rabbits, mice, and rats, to name but a few. Various adjuvants may be used to increase the immunological response, depending on the host species, including but not limited to Freund's (complete and incomplete), mineral gels such as aluminum hydroxide, surface active substances such as lysolecithin, pluronic polyols, polyanions, peptides, oil emulsions, keyhole limpet hemocyanin, dinitrophenol, and potentially useful human adjuvants such as BCG (bacille Calmette-Guerin) and *Corynebacterium parvum*.

Polyclonal antibodies are heterogeneous populations of antibody molecules derived from the sera of animals immunized with an antigen, such as novel gene product, or an antigenic functional derivative thereof. For the production of polyclonal antibodies, host animals such as those described above, may be immunized by injection with novel gene product supplemented with adjuvants as also described above.

Monoclonal antibodies, which are homogeneous populations of antibodies to a particular antigen, may be obtained by any technique which provides for the production of antibody molecules by continuous cell lines in culture. These include, but are not limited to the hybridoma technique of Kohler and Milstein, (1975, *Nature* 256:495-497; and U.S. Pat. No. 4,376,110), the human B-cell hybridoma technique (Kosbor et al., 1983, *Immunology Today* 4:72; Cole et al., 1983, *Proc. Natl. Acad. Sci. USA* 80:2026-2030), and the EBV-hybridoma technique (Cole et al., 1985, *Monoclonal Antibodies And Cancer Therapy*, Alan R. Liss, Inc., pp. 77-96). Such antibodies may be of any immunoglobulin class including IgG, IgM, IgE, IgA, IgD

and any subclass thereof. The hybridoma producing the mAb of this invention may be cultivated in vitro or in vivo.

In addition, techniques developed for the production of "chimeric antibodies" (Morrison et al., 1984, Proc. Natl. Acad. Sci., 81:6851-6855; Neuberger et al., 1984, Nature, 312:604-608; Takeda et al., 1985, Nature, 314:452-454) by splicing the genes from a mouse antibody molecule of appropriate antigen specificity together with genes from a human antibody molecule of appropriate biological activity can be used. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region.

Alternatively, techniques described for the production of single chain antibodies (U.S. Pat. No. 4,946,778; Bird, 1988, Science 242:423-426; Huston et al., 1988, Proc. Natl. Acad. Sci. USA 85:5879-5883; and Ward et al., 1989, Nature 334:544-546) can be adapted to produce novel nucleotide sequence-single chain antibodies. Single chain antibodies are formed by linking the heavy and light chain fragments of the Fv region via an amino acid bridge, resulting in a single chain polypeptide.

Antibody fragments which recognize specific epitopes may be generated by known techniques. For example, such fragments include but are not limited to: the F(ab')<sub>2</sub> fragments which can be produced by pepsin digestion of the antibody molecule and the Fab fragments which can be generated by reducing the disulfide bridges of the F(ab')<sub>2</sub> fragments. Alternatively, Fab expression libraries may be constructed (Huse et al., 1989, Science, 246:1275-1281) to allow rapid and easy identification of monoclonal Fab fragments with the desired specificity.

#### ***Disease specific target nucleotide sequences***

The invention also provides disease specific target nucleotide sequences, and sets of disease specific target nucleotide sequences. The diagnostic nucleotide sets, subsets thereof, novel nucleotide sequences, and individual members of the diagnostic nucleotide sets identified as described above are also disease specific target nucleotide sequences. In particular, individual nucleotide sequences that are differentially regulated or have predictive value that is strongly correlated with a disease or disease criterion are especially favorable as disease specific target nucleotide sequences. Sets of genes that are co-regulated may also be identified as disease specific target

nucleotide sets. Such nucleotide sequences and/or nucleotide sequence products are targets for modulation by a variety of agents and techniques. For example, disease specific target nucleotide sequences (or the products of such nucleotide sequences, or sets of disease specific target nucleotide sequences) can be inhibited or activated by, e.g., target specific monoclonal antibodies or small molecule inhibitors, or delivery of the nucleotide sequence or gene product of the nucleotide sequence to patients. Also, sets of genes can be inhibited or activated by a variety of agents and techniques. The specific usefulness of the target nucleotide sequence(s) depends on the subject groups from which they were discovered, and the disease or disease criterion with which they correlate.

### *Imaging*

The invention also provides for imaging reagents. The differentially expressed leukocyte nucleotide sequences, diagnostic nucleotide sets, or portions thereof, and novel nucleotide sequences of the invention are nucleotide sequences expressed in cells with or without disease. Leukocytes expressing a nucleotide sequence(s) that is differentially expressed in a disease condition may localize within the body to sites that are of interest for imaging purposes. For example, a leukocyte expressing a nucleotide sequence(s) that are differentially expressed in an individual having atherosclerosis may localize or accumulate at the site of an atherosclerotic plaque. Such leukocytes, when labeled, may provide a detection reagent for use in imaging regions of the body where labeled leukocyte accumulate or localize, for example, at the atherosclerotic plaque in the case of atherosclerosis. For example, leukocytes are collected from a subject, labeled in vitro, and reintroduced into a subject. Alternatively, the labeled reagent is introduced into the subject individual, and leukocyte labeling occurs within the patient.

Imaging agents that detect the imaging targets of the invention are produced by well-known molecular and immunological methods (for exemplary protocols, *see*, e.g., Ausubel, Berger, and Sambrook, as well as Harlow and Lane, *supra*).

For example, a full-length nucleic acid sequence, or alternatively, a gene fragment encoding an immunogenic peptide or polypeptide fragments, is cloned into a convenient expression vector, for example, a vector including an in-frame epitope or substrate binding tag to facilitate subsequent purification. Protein is then expressed from the cloned cDNA sequence and used to generate antibodies, or other specific

binding molecules, to one or more antigens of the imaging target protein.

Alternatively, a natural or synthetic polypeptide (or peptide) or small molecule that specifically binds (or is specifically bound to) the expressed imaging target can be identified through well established techniques (*see, e.g., Mendel et al. (2000) Anticancer Drug Des 15:29-41; Wilson (2000) Curr Med Chem 7:73-98; Hamby and Showalter (1999) Pharmacol Ther 82:169-93; and Shimazawa et al. (1998) Curr Opin Struct Biol 8:451-8*). The binding molecule, e.g., antibody, small molecule ligand, etc., is labeled with a contrast agent or other detectable label, e.g., gadolinium, iodine, or a gamma-emitting source. For in-vivo imaging of a disease process that involved leukocytes, the labeled antibody is infused into a subject, e.g., a human patient or animal subject, and a sufficient period of time is passed to permit binding of the antibody to target cells. The subject is then imaged with appropriate technology such as MRI (when the label is gadolinium) or with a gamma counter (when the label is a gamma emitter).

#### ***Identification of nucleotide sequence involved in leukocyte adhesion***

The invention also encompasses a method of identifying nucleotide sequences involved in leukocyte adhesion. The interaction between the endothelial cell and leukocyte is a fundamental mechanism of all inflammatory disorders, including the diseases listed in Table 1. For example, the first visible abnormality in atherosclerosis is the adhesion to the endothelium and diapedesis of mononuclear cells (e.g., T-cell and monocyte). Insults to the endothelium (for example, cytokines, tobacco, diabetes, hypertension and many more) lead to endothelial cell activation. The endothelium then expresses adhesion molecules, which have counter receptors on mononuclear cells. Once the leukocyte receptors have bound the endothelial adhesion molecules, they stick to the endothelium, roll a short distance, stop and transmigrate across the endothelium. A similar set of events occurs in both acute and chronic inflammation.

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Human endothelial cells, e.g. derived from human coronary arteries, human aorta, human pulmonary artery, human umbilical vein or microvascular endothelial cells, are cultured as a confluent monolayer, using standard methods. Some of the endothelial cells are then exposed to cytokines or another activating stimuli such as oxidized LDL, hyperglycemia, shear stress, or hypoxia (Moser et al. 1992). Some endothelial cells are not exposed to such stimuli and serve as controls. For example, the endothelial cell monolayer is incubated with culture medium containing 5 U/ml of human recombinant IL-1alpha or 10 ng/ml TNF (tumor necrosis factor), for a period of minutes to overnight. The culture medium composition is changed or the flask is sealed to induce hypoxia. In addition, tissue culture plate is rotated to induce sheer stress.

Human T-cells and/or monocytes are cultured in tissue culture flasks or plates, with LGM-3 media from Clonetics. Cells are incubated at 37 degree C, 5% CO<sub>2</sub> and 95% humidity. These leukocytes are exposed to the activated or control endothelial layer by adding a suspension of leukocytes on to the endothelial cell monolayer. The endothelial cell monolayer is cultured on a tissue culture treated plate/ flask or on a microporous membrane. After a variable duration of exposures, the endothelial cells and leukocytes are harvested separately by treating all cells with trypsin and then sorting the endothelial cells from the leukocytes by magnetic affinity reagents to an endothelial cell specific marker such as PECAM-1 (Stem Cell Technologies). RNA is extracted from the isolated cells by standard techniques. Leukocyte RNA is labeled as described above, and hybridized to leukocyte candidate nucleotide library. Epithelial cell RNA is also labeled and hybridized to the leukocyte candidate nucleotide library. Alternatively, the epithelial cell RNA is hybridized to a epithelial cell candidate nucleotide library, prepared according to the methods described for leukocyte candidate libraries, above.

Hybridization to candidate nucleotide libraries will reveal nucleotide sequences that are up-regulated or down-regulated in leukocyte and/or epithelial cells undergoing adhesion. The differentially regulated nucleotide sequences are further characterized, e.g. by isolating and sequencing the full-length sequence, analysis of the DNA and predicted protein sequence, and functional characterization of the protein product of the nucleotide sequence, as described above. Further characterization may result in the identification of leukocyte adhesion specific target nucleotide sequences, which may be candidate targets for regulation of the

inflammatory process. Small molecule or antibody inhibitors can be developed to inhibit the target nucleotide sequence function. Such inhibitors are tested for their ability to inhibit leukocyte adhesion in the in vitro test described above.

### *Integrated systems*

Integrated systems for the collection and analysis of expression profiles, and molecular signatures, as well as for the compilation, storage and access of the databases of the invention, typically include a digital computer with software including an instruction set for sequence searching and analysis, and, optionally, high-throughput liquid control software, image analysis software, data interpretation software, a robotic control armature for transferring solutions from a source to a destination (such as a detection device) operably linked to the digital computer, an input device (e.g., a computer keyboard) for entering subject data to the digital computer, or to control analysis operations or high throughput sample transfer by the robotic control armature. Optionally, the integrated system further comprises an image scanner for digitizing label signals from labeled assay components, e.g., labeled nucleic acid hybridized to a candidate library microarray. The image scanner can interface with image analysis software to provide a measurement of the presence or intensity of the hybridized label, i.e., indicative of an on/off expression pattern or an increase or decrease in expression.

Readily available computational hardware resources using standard operating systems are fully adequate, e.g., a PC (Intel x86 or Pentium chip- compatible DOS,<sup>TM</sup> OS2,<sup>TM</sup> WINDOWS,<sup>TM</sup> WINDOWS NT,<sup>TM</sup> WINDOWS95,<sup>TM</sup> WINDOWS98,<sup>TM</sup> LINUX, or even Macintosh, Sun or PCs will suffice) for use in the integrated systems of the invention. Current art in software technology is similarly adequate (i.e., there are a multitude of mature programming languages and source code suppliers) for design, e.g., of an upgradeable open-architecture object-oriented heuristic algorithm, or instruction set for expression analysis, as described herein. For example, software for aligning or otherwise manipulating molecular signatures can be constructed by one of skill using a standard programming language such as Visual basic, Fortran, Basic, Java, or the like, according to the methods herein.

Various methods and algorithms, including genetic algorithms and neural networks, can be used to perform the data collection, correlation, and storage functions, as well as other desirable functions, as described herein. In addition, digital



or analog systems such as digital or analog computer systems can control a variety of other functions such as the display and/or control of input and output files.

For example, standard desktop applications such as word processing software (e.g., Corel WordPerfect™ or Microsoft Word™) and database software (e.g., spreadsheet software such as Corel Quattro Pro™, Microsoft Excel™, or database programs such as Microsoft Access™ or Paradox™) can be adapted to the present invention by inputting one or more character string corresponding, e.g., to an expression pattern or profile, subject medical or historical data, molecular signature, or the like, into the software which is loaded into the memory of a digital system, and carrying out the operations indicated in an instruction set, e.g., as exemplified in Figure 2. For example, systems can include the foregoing software having the appropriate character string information, e.g., used in conjunction with a user interface in conjunction with a standard operating system such as a Windows, Macintosh or LINUX system. For example, an instruction set for manipulating strings of characters, either by programming the required operations into the applications or with the required operations performed manually by a user (or both). For example, specialized sequence alignment programs such as PILEUP or BLAST can also be incorporated into the systems of the invention, e.g., for alignment of nucleic acids or proteins (or corresponding character strings).

Software for performing the statistical methods required for the invention, e.g., to determine correlations between expression profiles and subsets of members of the diagnostic nucleotide libraries, such as programmed embodiments of the statistical methods described above, are also included in the computer systems of the invention. Alternatively, programming elements for performing such methods as principle component analysis (PCA) or least squares analysis can also be included in the digital system to identify relationships between data. Exemplary software for such methods is provided by Partek, Inc., St. Peter, Mo; <http://www.partek.com>.

Any controller or computer optionally includes a monitor which can include, e.g., a flat panel display (e.g., active matrix liquid crystal display, liquid crystal display), a cathode ray tube ("CRT") display, or another display system which serves as a user interface, e.g., to output predictive data. Computer circuitry, including numerous integrated circuit chips, such as a microprocessor, memory, interface circuits, and the like, is often placed in a casing or box which optionally also includes

a hard disk drive, a floppy disk drive, a high capacity removable drive such as a writeable CD-ROM, and other common peripheral elements.

Inputting devices such as a keyboard, mouse, or touch sensitive screen, optionally provide for input from a user and for user selection, e.g., of sequences or data sets to be compared or otherwise manipulated in the relevant computer system. The computer typically includes appropriate software for receiving user instructions, either in the form of user input into a set parameter or data fields (e.g., to input relevant subject data), or in the form of preprogrammed instructions, e.g., preprogrammed for a variety of different specific operations. The software then converts these instructions to appropriate language for instructing the system to carry out any desired operation.

The integrated system may also be embodied within the circuitry of an application specific integrated circuit (ASIC) or programmable logic device (PLD). In such a case, the invention is embodied in a computer readable descriptor language that can be used to create an ASIC or PLD. The integrated system can also be embodied within the circuitry or logic processors of a variety of other digital apparatus, such as PDAs, laptop computer systems, displays, image editing equipment, etc.

The digital system can comprise a learning component where expression profiles, and relevant subject data are compiled and monitored in conjunction with physical assays, and where correlations, e.g., molecular signatures with predictive value for a disease, are established or refined. Successful and unsuccessful combinations are optionally documented in a database to provide justification/preferences for user-base or digital system based selection of diagnostic nucleotide sets with high predictive accuracy for a specified disease or condition.

The integrated systems can also include an automated workstation. For example, such a workstation can prepare and analyze leukocyte RNA samples by performing a sequence of events including: preparing RNA from a human blood sample; labeling the RNA with an isotopic or non-isotopic label; hybridizing the labeled RNA to at least one array comprising all or part of the candidate library; and detecting the hybridization pattern. The hybridization pattern is digitized and recorded in the appropriate database.

*Automated RNA preparation tool*

The invention also includes an automated RNA preparation tool for the preparation of mononuclear cells from whole blood samples, and preparation of RNA from the mononuclear cells. In a preferred embodiment, the use of the RNA preparation tool is fully automated, so that the cell separation and RNA isolation would require no human manipulations. Full automation is advantageous because it minimizes delay, and standardizes sample preparation across different laboratories. This standardization increases the reproducibility of the results.

**Figure 2** depicts the processes performed by the RNA preparation tool of the invention. A primary component of the device is a centrifuge (A). Tubes of whole blood containing a density gradient solution, transcription/translation inhibitors, and a gel barrier that separates erythrocytes from mononuclear cells and serum after centrifugation are placed in the centrifuge (B). The barrier is permeable to erythrocytes and granulocytes during centrifugation, but does not allow mononuclear cells to pass through (or the barrier substance has a density such that mononuclear cells remain above the level of the barrier during the centrifugation). After centrifugation, the erythrocytes and granulocytes are trapped beneath the barrier, facilitating isolation of the mononuclear cell and serum layers. A mechanical arm removes the tube and inverts it to mix the mononuclear cell layer and the serum (C). The arm next pours the supernatant into a fresh tube (D), while the erythrocytes and granulocytes remained below the barrier. Alternatively, a needle is used to aspirate the supernatant and transfer it to a fresh tube. The mechanical arms of the device opens and closes lids, dispenses PBS to aid in the collection of the mononuclear cells by centrifugation, and moves the tubes in and out of the centrifuge. Following centrifugation, the supernatant is poured off or removed by a vacuum device (E), leaving an isolated mononuclear cell pellet. Purification of the RNA from the cells is performed automatically, with lysis buffer and other purification solutions (F) automatically dispensed and removed before and after centrifugation steps. The result is a purified RNA solution. In another embodiment, RNA isolation is performed using a column or filter method. In yet another embodiment, the invention includes an on-board homogenizer for use in cell lysis.

*Other automated systems*

Automated and/or semi-automated methods for solid and liquid phase high-throughput sample preparation and evaluation are available, and supported by commercially available devices. For example, robotic devices for preparation of nucleic acids from bacterial colonies, e.g., to facilitate production and characterization of the candidate library include, for example, an automated colony picker (e.g., the Q-bot, Genetix, U.K.) capable of identifying, sampling, and inoculating up to 10,000/4 hrs different clones into 96 well microtiter dishes. Alternatively, or in addition, robotic systems for liquid handling are available from a variety of sources, e.g., automated workstations like the automated synthesis apparatus developed by Takeda Chemical Industries, LTD. (Osaka, Japan) and many robotic systems utilizing robotic arms (Zymate II, Zymark Corporation, Hopkinton, Mass.; Orca, Beckman Coulter, Inc. (Fullerton, CA)) which mimic the manual operations performed by a scientist. Any of the above devices are suitable for use with the present invention, e.g., for high-throughput analysis of library components or subject leukocyte samples. The nature and implementation of modifications to these devices (if any) so that they can operate as discussed herein will be apparent to persons skilled in the relevant art.

High throughput screening systems that automate entire procedures, e.g., sample and reagent pipetting, liquid dispensing, timed incubations, and final readings of the microplate in detector(s) appropriate for the relevant assay are commercially available. (*see, e.g.*, Zymark Corp., Hopkinton, MA; Air Technical Industries, Mentor, OH; Beckman Instruments, Inc. Fullerton, CA; Precision Systems, Inc., Natick, MA, *etc.*). These configurable systems provide high throughput and rapid start up as well as a high degree of flexibility and customization. Similarly, arrays and array readers are available, e.g., from Affymetrix, PE Biosystems, and others.

The manufacturers of such systems provide detailed protocols the various high throughput. Thus, for example, Zymark Corp. provides technical bulletins describing screening systems for detecting the modulation of gene transcription, ligand binding, and the like.

A variety of commercially available peripheral equipment, including, e.g., optical and fluorescent detectors, optical and fluorescent microscopes, plate readers, CCD arrays, phosphorimagers, scintillation counters, phototubes, photodiodes, and the like, and software is available for digitizing, storing and analyzing a digitized video or digitized optical or other assay results, e.g., using PC (Intel x86 or pentium

chip- compatible DOS™, OS2™ WINDOWS™, WINDOWS NT™ or WINDOWS95™ based machines), MACINTOSH™, or UNIX based (e.g., SUN™ work station) computers.

*Embodiment in a web site.*

The methods described above can be implemented in a localized or distributed computing environment. For example, if a localized computing environment is used, an array comprising a candidate nucleotide library, or diagnostic nucleotide set, is configured in proximity to a detector, which is, in turn, linked to a computational device equipped with user input and output features.

In a distributed environment, the methods can be implemented on a single computer with multiple processors or, alternatively, on multiple computers. The computers can be linked, e.g. through a shared bus, but more commonly, the computer(s) are nodes on a network. The network can be generalized or dedicated, at a local level or distributed over a wide geographic area. In certain embodiments, the computers are components of an intra-net or an internet.

The predictive data corresponding to subject molecular signatures (e.g., expression profiles, and related diagnostic, prognostic, or monitoring results) can be shared by a variety of parties. In particular, such information can be utilized by the subject, the subject's health care practitioner or provider, a company or other institution, or a scientist. An individual subject's data, a subset of the database or the entire database recorded in a computer readable medium can be accessed directly by a user by any method of communication, including, but not limited to, the internet. With appropriate computational devices, integrated systems, communications networks, users at remote locations, as well as users located in proximity to, e.g., at the same physical facility, the database can access the recorded information. Optionally, access to the database can be controlled using unique alphanumeric passwords that provide access to a subset of the data. Such provisions can be used, e.g., to ensure privacy, anonymity, etc.

Typically, a client (e.g., a patient, practitioner, provider, scientist, or the like) executes a Web browser and is linked to a server computer executing a Web server. The Web browser is, for example, a program such as IBM's Web Explorer, Internet explorer, NetScape or Mosaic, or the like. The Web server is typically, but not necessarily, a program such as IBM's HTTP Daemon or other WWW daemon (e.g.,

LINUX-based forms of the program). The client computer is bi-directionally coupled with the server computer over a line or via a wireless system. In turn, the server computer is bi-directionally coupled with a website (server hosting the website) providing access to software implementing the methods of this invention.

A user of a client connected to the Intranet or Internet may cause the client to request resources that are part of the web site(s) hosting the application(s) providing an implementation of the methods described herein. Server program(s) then process the request to return the specified resources (assuming they are currently available). A standard naming convention has been adopted, known as a Uniform Resource Locator ("URL"). This convention encompasses several types of location names, presently including subclasses such as Hypertext Transport Protocol ("http"), File Transport Protocol ("ftp"), gopher, and Wide Area Information Service ("WAIS"). When a resource is downloaded, it may include the URLs of additional resources. Thus, the user of the client can easily learn of the existence of new resources that he or she had not specifically requested.

Methods of implementing Intranet and/or Intranet embodiments of computational and/or data access processes are well known to those of skill in the art and are documented, e.g., in ACM Press, pp. 383-392; ISO-ANSI, Working Draft, "Information Technology-Database Language SQL", Jim Melton, Editor, International Organization for Standardization and American National Standards Institute, Jul. 1992; ISO Working Draft, "Database Language SQL-Part 2:Foundation (SQL/Foundation)", CD9075-2:199.chi.SQL, Sep. 11, 1997; and Cluer et al. (1992) A General Framework for the Optimization of Object-Oriented Queries, Proc SIGMOD International Conference on Management of Data, San Diego, California, Jun. 2-5, 1992, SIGMOD Record, vol. 21, Issue 2, Jun., 1992; Stonebraker, M., Editor;. Other resources are available, e.g., from Microsoft, IBM, Sun and other software development companies.

Using the tools described above, users of the reagents, methods and database as discovery or diagnostic tools can query a centrally located database with expression and subject data. Each submission of data adds to the sum of expression and subject information in the database. As data is added, a new correlation statistical analysis is automatically run that incorporates the added clinical and expression data. Accordingly, the predictive accuracy and the types of correlations of the recorded molecular signatures increases as the database grows.

For example, subjects, such as patients, can access the results of the expression analysis of their leukocyte samples and any accrued knowledge regarding the likelihood of the patient's belonging to any specified diagnostic (or prognostic, or monitoring, or risk group), i.e., their expression profiles, and/or molecular signatures. Optionally, subjects can add to the predictive accuracy of the database by providing additional information to the database regarding diagnoses, test results, clinical or other related events that have occurred since the time of the expression profiling. Such information can be provided to the database via any form of communication, including, but not limited to, the internet. Such data can be used to continually define (and redefine) diagnostic groups. For example, if 1000 patients submit data regarding the occurrence of myocardial infarction over the 5 years since their expression profiling, and 300 of these patients report that they have experienced a myocardial infarction and 700 report that they have not, then the 300 patients define a new "group A." As the algorithm is used to continually query and revise the database, a new diagnostic nucleotide set that differentiates groups A and B (i.e., with and without myocardial infarction within a five year period) is identified. This newly defined nucleotide set is then be used (in the manner described above) as a test that predicts the occurrence of myocardial infarction over a five-year period. While submission directly by the patient is exemplified above, any individual with access and authority to submit the relevant data e.g., the patient's physician, a laboratory technician, a health care or study administrator, or the like, can do so.

As will be apparent from the above examples, transmission of information via the internet (or via an intranet) is optionally bi-directional. That is, for example, data regarding expression profiles, subject data, and the like are transmitted via a communication system to the database, while information regarding molecular signatures, predictive analysis, and the like, are transmitted from the database to the user. For example, using appropriate configurations of an integrated system including a microarray comprising a diagnostic nucleotide set, a detector linked to a computational device can directly transmit (locally or from a remote workstation at great distance, e.g., hundreds or thousands of miles distant from the database) expression profiles and a corresponding individual identifier to a central database for analysis according to the methods of the invention. According to, e.g., the algorithms described above, the individual identifier is assigned to one or more diagnostic (or prognostic, or monitoring, etc.) categories. The results of this classification are then

relayed back, via, e.g., the same mode of communication, to a recipient at the same or different internet (or intranet) address.

### ***Kits***

The present invention is optionally provided to a user as a kit. Typically, a kit contains one or more diagnostic nucleotide sets of the invention. Alternatively, the kit contains the candidate nucleotide library of the invention. Most often, the kit contains a diagnostic nucleotide probe set, or other subset of a candidate library, e.g., as a cDNA or antibody microarray packaged in a suitable container. The kit may further comprise, one or more additional reagents, e.g., substrates, labels, primers, for labeling expression products, tubes and/or other accessories, reagents for collecting blood samples, buffers, e.g., erythrocyte lysis buffer, leukocyte lysis buffer, hybridization chambers, cover slips, etc., as well as a software package, e.g., including the statistical methods of the invention, e.g., as described above, and a password and/or account number for accessing the compiled database. The kit optionally further comprises an instruction set or user manual detailing preferred methods of using the diagnostic nucleotide sets in the methods of the invention. Exemplary kits are described in Figure 3.

This invention will be better understood by reference to the following non-limiting Examples:

### **EXAMPLES**

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*Example 7: Preparation of a leukocyte cDNA array comprising a candidate gene library*

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*Example 16: Identification of diagnostic nucleotide sets for use in diagnosis of rheumatoid arthritis.*

*Example 17: Identification of diagnostic nucleotide sets for diagnosis of cytomegalovirus*

*Example 18: Identification of diagnostic nucleotide sets for diagnosis of Epstein Barr Virus*

*Example 19: Identification of diagnostic nucleotides sets for monitoring response to statin drugs.*

*Example 20: Probe selection for a 24,000 feature Array.*

*Example 21: Design of oligonucleotide probes.*

*Example 22: Production of an array of 8,000 spotted 50 mer oligonucleotides.*

*Example 23: Amplification, labeling and hybridization of total RNA to an oligonucleotide microarray.*

*Example 24: Analysis of Human Transplant Patient Mononuclear cell RNA Hybridized to a 24,000 Feature Microarray.*

## Examples

### *Example 1: Generation of subtracted leukocyte candidate nucleotide library*

To produce a candidate nucleotide library with representatives from the spectrum of nucleotide sequences that are differentially expressed in leukocytes, subtracted hybridization libraries were produced from the following cell types and conditions:

1. Buffy Coat leukocyte fractions - stimulated with ionomycin and PMA
2. Buffy Coat leukocyte fractions – un-stimulated
3. Peripheral blood mononuclear cells – stimulated with ionomycin and PMA
4. Peripheral blood mononuclear cells – un-stimulated
5. T lymphocytes – stimulated with PMA and ionomycin
6. T lymphocytes – resting

Cells were obtained from multiple individuals to avoid introduction of bias by using only one person as a cell source.

Buffy coats (platelets and leukocytes that are isolated from whole blood) were purchased from Stanford Medical School Blood Center. Four buffy coats were used, each of which was derived from about 350 ml of whole blood from one donor individual. 10 ml of buffy coat sample was drawn from the sample bag using a needle and syringe. 40 ml of Buffer EL (Qiagen) was added per 10 ml of buffy coat to lyse red blood cells. The sample was placed on ice for 15 minutes, and cells were collected by centrifugation at 2000 rpm for 10 minutes. The supernatant was decanted and the cell pellet was re-suspended in leukocyte growth media supplemented with DNase (LGM-3 from Clonetics supplemented with Dnase at a final concentration of 30 U/ml). Cell density was determined using a hemocytometer. Cells were plated in media at a density of  $1 \times 10^6$  cells/ml in a total volume of 30 ml in a T-75 flask (Corning). Half of the cells were stimulated with ionomycin and phorbol myristate acetate (PMA) at a final concentration of 1  $\mu$ g/ml and 62 ng/ml, respectively. Cells were incubated at 37°C and at 5% CO<sub>2</sub> for 3 hours, then cells were scraped off the flask and collected into 50 ml tubes. Stimulated and resting cell populations were kept separate. Cells were centrifuged at 2000 rpm for 10 minutes and the supernatant was removed. Cells were lysed in 6 ml of phenol/guanidine isothiocyanate (Trizol reagent, GibcoBRL), homogenized using a rotary

homogenizer, and frozen at 80°. Total RNA and mRNA were isolated as described below.

Two frozen vials of  $5 \times 10^6$  human peripheral blood mononuclear cells (PBMCs) were purchased from Clonetics (catalog number cc-2702). The cells were rapidly thawed in a 37°C water bath and transferred to a 15 ml tube containing 10 ml of leukocyte growth media supplemented with DNase (prepared as described above). Cells were centrifuged at 200g for 10 minutes. The supernatant was removed and the cell pellet was resuspended in LGM-3 media supplemented with DNase. Cell density was determined using a hemocytometer. Cells were plated at a density of  $1 \times 10^6$  cells/ml in a total volume of 30 ml in a T-75 flask (Corning). Half of the cells were stimulated with ionomycin and PMA at a final concentration of 1 µg/ml and 62 ng/ml, respectively. Cells were incubated at 37°C and at 5% CO<sub>2</sub> for 3 hours, then cells were scraped off the flask and collected into 50 ml tubes. Stimulated and resting cell populations were kept separate. Cells were centrifuged at 2000 rpm and the supernatant was removed. Cells were lysed in 6 ml of phenol/guanidine isothiocyanate solution (TRIZOL reagent, GibcoBRL), homogenized using a rotary homogenizer, and frozen at 80°. Total RNA and mRNA were isolated from these samples using the protocol described below.

45 ml of whole blood was drawn from a peripheral vein of four healthy human subjects into tubes containing anticoagulant. 50 µl RosetteSep (Stem Cell Technologies) cocktail per ml of blood was added, mixed well, and incubated for 20 minutes at room temperature. The mixture was diluted with an equal volume of PBS + 2% fetal bovine serum (FBS) and mixed by inversion. 30 ml of diluted mixture sample was layered on top of 15 ml DML medium (Stem Cell Technologies). The sample tube was centrifuged for 20 minutes at 1200g at room temperature. The enriched T-lymphocyte cell layer at the plasma : medium interface was removed. Enriched cells were washed with PBS + 2% FBS and centrifuged at 1200 x g. The cell pellet was treated with 5 ml of erythrocyte lysis buffer (EL buffer, Qiagen) for 10 minutes on ice. The sample was centrifuged for 5 min at 1200g. Cells were plated at a density of  $1 \times 10^6$  cells/ml in a total volume of 30 ml in a T-75 flask (Corning). Half of the cells were stimulated with ionomycin and PMA at a final concentration of 1 µg/ml and 62 ng/ml, respectively. Cells were incubated at 37°C and at 5% CO<sub>2</sub> for 3 hours, then cells were scraped off the flask and collected into 50 ml tubes. Stimulated and resting cell populations were kept separate. Cells were centrifuged at 2000 rpm

and the supernatant was removed. Cells were lysed in 6 ml of phenol/guanidine isothiocyanate solution (TRIZOL reagent, GibcoBRL), homogenized using a rotary homogenizer, and frozen at 80°. Total RNA and mRNA were isolated as described below.

Total RNA and mRNA were isolated using the following procedure: the homogenized samples were thawed and mixed by vortexing. Samples were lysed in a 1:0.2 mixture of Trizol and chloroform, respectively. For some samples, 6 ml of Trizol-chloroform was added. Variable amounts of Trizol-chloroform was added to other samples. Following lysis, samples were centrifuged at 3000 g for 15 min at 4°C. The aqueous layer was removed into a clean tube and 4 volumes of Buffer RLT (Qiagen) was added for every volume of aqueous layer. The samples were mixed thoroughly and total RNA was prepared from the sample by following the Qiagen Rneasy midi protocol for RNA cleanup (October 1999 protocol, Qiagen). For the final step, the RNA was eluted from the column twice with 250 µl Rnase-free water. Total RNA was quantified using a spectrophotometer. Isolation of mRNA from total RNA sample was done using The Oligotex mRNA isolation protocol (Qiagen) was used to isolate mRNA from total RNA, according to the manufacturer's instructions (Qiagen, 7/99 version). mRNA was quantified by spectrophotometry.

Subtracted cDNA libraries were prepared using Clontech's PCR-Select cDNA Subtraction Kit (protocol number PT-1117-1) as described in the manufacturer's protocol. The protocol calls for two sources of RNA per library, designated "Driver" and "Tester." The following 6 libraries were made:

<u>Library</u>	<u>Driver RNA</u>	<u>Tester RNA</u>
Buffy Coat Stimulated	Un-stimulated Buffy Coat	Stimulated Buffy Coat
Buffy Coat Resting	Stimulated Buffy Coat	Un-stimulated Buffy Coat
PBMC Stimulated	Un-stimulated PBMCs	Stimulated PBMCs
PBMC Resting	Stimulated PBMCs	Un-stimulated PBMCs
T-cell Stimulated	Un-stimulated T-cells	Stimulated T-cells
T-cell Resting	Stimulated T-cells	Un-stimulated T-cells

The Clontech protocol results in the PCR amplification of cDNA products.

The PCR products of the subtraction protocol were ligated to the pGEM T-easy bacterial vector as described by the vector manufacturer (Promega 6/99 version). Ligated vector was transformed into competent bacteria using well-known techniques,

plated, and individual clones are picked, grown and stored as a glycerol stock at – 80C. Plasmid DNA was isolated from these bacteria by standard techniques and used for sequence analysis of the insert. Unique cDNA sequences were searched in the Unigene database (build 133), and Unigene cluster numbers were identified that corresponded to the DNA sequence of the cDNA. Unigene cluster numbers were recorded in an Excel spreadsheet.

***Example 2: Identification of nucleotide sequences for candidate library using data mining techniques***

Existing and publicly available gene sequence databases were used to identify candidate nucleotide sequences for leukocyte expression profiling. Genes and nucleotide sequences with specific expression in leukocytes, for example, lineage specific markers, or known differential expression in resting or activated leukocytes were identified. Such nucleotide sequences are used in a leukocyte candidate nucleotide library, alone or in combination with nucleotide sequences isolated through cDNA library construction, as described above.

Leukocyte candidate nucleotide sequences were identified using three primary methods. First, the publically accessible publication database PubMed was searched to identify nucleotide sequences with known specific or differential expression in leukocytes. Nucleotide sequences were identified that have been demonstrated to have differential expression in peripheral blood leukocytes between subjects with and without particular disease(s) selected from Table 1. Additionally, genes and gene sequences that were known to be specific or selective for leukocytes or sub-populations of leukocytes were identified in this way.

Next, two publicly available databases of DNA sequences, Unigene (<http://www.ncbi.nlm.nih.gov/UniGene/>) and BodyMap (<http://bodymap.ims.u-tokyo.ac.jp/>), were searched for sequenced DNA clones that showed specificity to leukocyte lineages, or subsets of leukocytes, or resting or activated leukocytes.

The human Unigene database (build 133) was used to identify leukocyte candidate nucleotide sequences that were likely to be highly or exclusively expressed in leukocytes. We used the Library Differential Display utility of Unigene (<http://www.ncbi.nlm.nih.gov/UniGene/info/ddd.html>), which uses statistical methods (The Fisher Exact Test) to identify nucleotide sequences that have relative specificity

for a chosen library or group of libraries relative to each other. We compared the following human libraries from Unigene release 133:

546 NCI\_CGAP\_HSC1 (399)  
 848 Human\_mRNA\_from\_cd34+\_stem\_cells (122)  
 105 CD34+DIRECTIONAL (150)  
 3587 KRIBB\_Human\_CD4\_intrathymic\_T-cell\_cDNA\_library (134)  
 3586 KRIBB\_Human\_DP\_intrathymic\_T-cell\_cDNA\_library (179)  
 3585 KRIBB\_Human\_TN\_intrathymic\_T-cell\_cDNA\_library (127)  
 3586 323 Activated\_T-cells\_I (740)  
 376 Activated\_T-cells\_XX (1727)  
 327 Monocytes,\_stimulated\_II (110)  
 824 Proliferating\_Erythroid\_Cells\_(LCB:ad\_library) (665)  
 825 429 Macrophage\_II (105)  
 387 Macrophage\_I (137)  
 669 NCI\_CGAP\_CLL1 (11626)  
 129 Human\_White\_blood\_cells (922)  
 1400 NIH\_MGC\_2 (422)  
 55 Human\_promyelocyte (1220)  
 1010 NCI\_CGAP\_CML1 (2541)  
 2217 NCI\_CGAP\_Sub7 (218)  
 1395 NCI\_CGAP\_Sub6 (2764)  
 4874 NIH\_MGC\_48 (2524)

BodyMap, like Unigene, contains cell-specific libraries that contain potentially useful information about genes that may serve as lineage-specific or leukocyte specific markers (Okubo et al. 1992). We compared three leukocyte specific libraries, Granulocyte, CD4 T cell, and CD8 T cell, with the other libraries. Nucleotide sequences that were found in one or more of the leukocyte-specific libraries, but absent in the others, were identified. Clones that were found exclusively in one of the three leukocyte libraries were also included in a list of nucleotide sequences that could serve as lineage-specific markers.

Next, the sequence of the nucleotide sequences identified in PubMed or BodyMap were searched in Unigene (version 133), and a human Unigene cluster number was identified for each nucleotide sequence. The cluster number was

recorded in a Microsoft Excel™ spreadsheet, and a non-redundant list of these clones was made by sorting the clones by UniGene number, and removing all redundant clones using Microsoft Excel™ tools. The non-redundant list of UniGene cluster numbers was then compared to the UniGene cluster numbers of the cDNAs identified using differential cDNA hybridization, as described above in Example 1 (listed in Table 3 and the sequence listing). Only UniGene clusters that were not contained in the cDNA libraries were retained. Unigene clusters corresponding to 1911 candidate nucleotide sequences for leukocyte expression profiling were identified in this way and are listed in Table 3 and the sequence listing.

DNA clones corresponding to each UniGene cluster number are obtained in a variety of ways. First, a cDNA clone with identical sequence to part of, or all of the identified UniGene cluster is bought from a commercial vendor or obtained from the IMAGE consortium (<http://image.llnl.gov/>, the Integrated Molecular Analysis of Genomes and their Expression). Alternatively, PCR primers are designed to amplify and clone any portion of the nucleotide sequence from cDNA or genomic DNA using well-known techniques. Alternatively, the sequences of the identified UniGene clusters are used to design and synthesize oligonucleotide probes for use in microarray based expression profiling.

***Example 3: DNA Sequencing and Processing of raw sequence data.***

Clones of differentially expressed cDNAs (identified by subtractive hybridization, described above) were sequenced on an MJ Research BaseStation™ slab gel based fluorescent detection system, using BigDye™ (Applied Biosystems, Foster City, CA) terminator chemistry was used (Heiner et al., Genome Res 1998 May;8(5):557-61).

The fluorescent profiles were analyzed using the Phred sequence analysis program (Ewing et al, (1998), Genome Research 8: 175-185). Analysis of each clone results in a one pass nucleotide sequence and a quality file containing a number for each base pair with a score based on the probability that the determined base is correct. Each sequence files and its respective quality files were initially combined into single fasta format (Pearson, WR. Methods Mol Biol. 2000;132:185-219), multi-sequence file with the appropriate labels for each clone in the headers for subsequent automated analysis.

Initially, known sequences were analyzed by pair wise similarity searching using the *blastn* option of the *blastall* program obtained from the National Center for Biological Information, National Library of Medicine, National Institutes of Health (NCBI) to determine the quality score that produced accurate matching (Altschul SF, et al. *J Mol Biol.* 1990 Oct 5;215(3):403-10.). Empirically, it was determined that a raw score of 8 was the minimum that contained useful information. Using a sliding window average for 16 base pairs, an average score was determined. The sequence was removed (trimmed) when the average score fell below 8. Maximum reads were 950 nucleotides long.

Next, the sequences were compared by similarity matching against a database file containing the flanking vector sequences used to clone the cDNA, using the *blastall* program with the *blastn* option. All regions of vector similarity were removed, or "trimmed" from the sequences of the clones using scripts in the GAWK programming language, a variation of AWK (Aho AV et al, *The Awk Programming Language* (Addison-Wesley, Reading MA, 1988); Robbins, AD, "Effective AWK Programming" (Free Software Foundation, Boston MA, 1997). It was found that the first 45 base pairs of all the sequences were related to vector; these sequences were also trimmed and thus removed from consideration. The remaining sequences were then compared against the NCBI vector database (Kitts, P.A. et al. National Center for Biological Information, National Library of Medicine, National Institutes of Health, Manuscript in preparation (2001) using *blastall* with the *blastn* option. Any vector sequences that were found were removed from the sequences.

Messenger RNA contains repetitive elements that are found in genomic DNA. These repetitive elements lead to false positive results in similarity searches of query mRNA sequences versus known mRNA and EST databases. Additionally, regions of low information content (long runs of the same nucleotide, for example) also result in false positive results. These regions were masked using the program RepeatMasker2 found at <http://repeatmasker.genome.washington.edu> (Smit, AFA & Green, P "RepeatMasker" at <http://ftp.genome.washington.edu/RM/RepeatMasker.html>). The trimmed and masked files were then subjected to further sequence analysis.



***Example 4: Further sequence analysis of novel nucleotide sequences identified by subtractive hybridization screening***

cDNA sequences were further characterized using BLAST analysis. The BLASTN program was used to compare the sequence of the fragment to the UniGene, dbEST, and nr databases at NCBI (GenBank release 123.0; see Table 5). In the BLAST algorithm, the expect value for an alignment is used as the measure of its significance. First, the cDNA sequences were compared to sequences in Unigene (<http://www.ncbi.nlm.nih.gov/UniGene>). If no alignments were found with an expect value less than  $10^{-25}$ , the sequence was compared to the sequences in the dbEST database using BLASTN. If no alignments were found with an expect value less than  $10^{-25}$ , the sequence was compared to sequences in the nr database.

The BLAST analysis produced the following categories of results: a) a significant match to a known or predicted human gene, b) a significant match to a nonhuman DNA sequence, such as vector DNA or *E. coli* DNA, c) a significant match to an unidentified GenBank entry (a sequence not previously identified or predicted to be an expressed sequence or a gene), such as a cDNA clone, mRNA, or cosmid, or d) no significant alignments. If a match to a known or predicted human gene was found, analysis of the known or predicted protein product was performed as described below. If a match to an unidentified GenBank entry was found, or if no significant alignments were found, the sequence was searched against all known sequences in the human genome database (<http://www.ncbi.nlm.nih.gov/genome/seq/page.cgi?F=HsBlast.html&&ORG=Hs>, see Table 5).

If many unknown sequences were to be analyzed with BLASTN, the clustering algorithm CAP2 (Contig Assembly Program, version 2) was used to cluster them into longer, contiguous sequences before performing a BLAST search of the human genome. Sequences that can be grouped into contigs are likely to be cDNA from expressed genes rather than vector DNA, *E. coli* DNA or human chromosomal DNA from a noncoding region, any of which could have been incorporated into the library. Clustered sequences provide a longer query sequence for database comparisons with BLASTN, increasing the probability of finding a significant match to a known gene. When a significant alignment was found, further analysis of the putative gene was performed, as described below. Otherwise, the sequence of the

original cDNA fragment or the CAP2 contig is used to design a probe for expression analysis and further approaches are taken to identify the gene or predicted gene that corresponds to the cDNA sequence, including similarity searches of other databases, molecular cloning, and Rapid Amplification of cDNA Ends (RACE).

In some cases, the process of analyzing many unknown sequences with BLASTN was automated by using the BLAST network-client program `blastcl3`, which was downloaded from `ftp://ncbi.nlm.nih.gov/blast/network/netblast`.

When a cDNA sequence aligned to the sequence of one or more chromosomes, a large piece of the genomic region around the loci was used to predict the gene containing the cDNA. To do this, the contig corresponding to the mapped locus, as assembled by the RefSeq project at NCBI, was downloaded and cropped to include the region of alignment plus 100,000 bases preceding it and 100,000 bases following it on the chromosome. The result was a segment 200 kb in length, plus the length of the alignment. This segment, designated a putative gene, was analyzed using an exon prediction algorithm to determine whether the alignment area of the unknown sequence was contained within a region predicted to be transcribed (see Table 6).

This putative gene was characterized as follows: all of the exons comprising the putative gene and the introns between them were taken as a unit by noting the residue numbers on the 200kb+ segment that correspond to the first base of the first exon and the last base of the last exon, as given in the data returned by the exon prediction algorithm. The truncated sequence was compared to the UniGene, dbEST, and nr databases to search for alignments missed by searching with the initial fragment.

The predicted amino acid sequence of the gene was also analyzed. The peptide sequence of the gene predicted from the exons was used in conjunction with numerous software tools for protein analysis (see Table 7). These were used to classify or identify the peptide based on similarities to known proteins, as well as to predict physical, chemical, and biological properties of the peptides, including secondary and tertiary structure, flexibility, hydrophobicity, antigenicity (hydrophilicity), common domains and motifs, and localization within the cell or tissues. The peptide sequence was compared to protein databases, including SWISS-PROT, TrEMBL, GenPept, PDB, PIR, PROSITE, ProDom, PROSITE, Blocks,

PRINTS, and Pfam, using BLASTP and other algorithms to determine similarities to known proteins or protein subunits.

**Example 5: Further sequence analysis of novel Clone 596H6**

The sequence of clone 596H6 is provided below:

ACTATATTTA	GGCACCCTG	CCATAAACTA	CCAAAAA	AATGTAATTC	50
CTAGAAGCTG	TGAAGAATAG	TAGTGTAGCT	AAGCACGGTG	TGTGGACAGT	100
GGGACATCTG	CCACCTGCAG	TAGGTCTCTG	CACTCCCAA	AGCAAATTAC	150
ATTGGCTTGA	ACTTCAGTAT	GCCCGGTTCC	ACCTCCAGA	AACTTTTGTG	200
TTCTTTGTAT	AGAATTTAGG	AACTTCTGAG	GGCCACAAAT	ACACACATTA	250
AAAAAGGTAG	AATTTTGTAA	GATAAGATTC	TTCTAAAAA	GCTTCCCAAT	300
GCTTGAGTAG	AAAGTATCAG	TAGAGGTATC	AAGGGAGGAG	AGACTAGGTG	350
ACCACTAAAC	TCCTTCAGAC	TCTTAAAATT	ACGATTCTTT	TCTCAAAGGG	400
GAAGAACGTC	AGTGCAGCGA	TCCCTTCACC	TTAGCTAAA	GAATTGGACT	450
GTGCTGCTCA	AAATAAAGAT	CAGTTGGAGG	TANGATGTCC	AAGACTGAAG	500
GTAAAGGACT	AGTGCAAAC	GAAAGTGATG	GGGAAACAGA	CCTACGTATG	550
GAAGCCATGT	AGTGTTCTTC	ACAGGCTGCT	GTTGACTGAA	ATTCCTATCC	600
TCAAATTACT	CTAGACTGAA	GCTGCTTCCC	TTCAGTGAGC	AGCCTCTCCT	650
TCCAAGATTC	TGGAAAGCAC	ACCTGACTCC	AAACAAAGAC	TTAGAGCCCT	700
GTGTCAGTGC	TGCTGCTGCT	TTTACCAGAT	TCTCTAACCT	TCCGGGTAGA	750

AGAG (SEQ ID NO:  
8767)

This sequence was used as input for a series of BLASTN searches. First, it was used to search the UniGene database, build 132 (<http://www.ncbi.nlm.nih.gov/BLAST/>). No alignments were found with an expect value less than the threshold value of  $10^{-25}$ . A BLASTN search of the database dbEST, release 041001, was then performed on the sequence and 21 alignments were found (<http://www.ncbi.nlm.nih.gov/BLAST/>). Ten of these had expect values less than  $10^{-25}$ , but all were matches to unidentified cDNA clones. Next, the sequence was used to run a BLASTN search of the nr database, release 123.0. No significant alignment to any sequence in nr was found. Finally, a BLASTN search of the human genome was performed on the sequence (<http://www.ncbi.nlm.nih.gov/genome/seq/page.cgi?F=HsBlast.html&&ORG=Hs>).

A single alignment to the genome was found on contig NT\_004698.3 (e=0.0). The region of alignment on the contig was from base 1,821,298 to base 1,822,054,

and this region was found to be mapped to chromosome 1, from base 105,552,694 to base 105,553,450. The sequence containing the aligned region, plus 100 kilobases on each side of the aligned region, was downloaded. Specifically, the sequence of chromosome 1 from base 105,452,694 to 105,653,450 was downloaded ([http://www.ncbi.nlm.nih.gov/cgi-bin/Entrez/seq\\_reg.cgi?chr=1&from=105452694&to=105653450](http://www.ncbi.nlm.nih.gov/cgi-bin/Entrez/seq_reg.cgi?chr=1&from=105452694&to=105653450)).

This 200,757 bp segment of the chromosome was used to predict exons and their peptide products as follows. The sequence was used as input for the Genscan algorithm (<http://genes.mit.edu/GENSCAN.html>), using the following Genscan settings:

Organism: vertebrate

Suboptimal exon cutoff: 1.00 (no suboptimal exons)

Print options: Predicted CDS and peptides

The region matching the sequence of clone 596H6 was known to span base numbers 100,001 to 100,757 of the input sequence. An exon was predicted by the algorithm, with a probability of 0.695, covering bases 100,601 to 101,094 (designated exon 4.14 of the fourth predicted gene). This exon was part of a predicted cistron that is 24,195 bp in length. The sequence corresponding to the cistron was noted and saved separately from the 200,757 bp segment. BLASTN searches of the Unigene, dbEST, and nr databases were performed on it.

At least 100 significant alignments to various regions of the sequence were found in the dbEST database, although most appeared to be redundant representations of a few exons. All matches were to unnamed cDNAs and mRNAs (unnamed cDNAs and mRNAs are cDNAs and mRNAs not previously identified, or shown to correspond to a known or predicted human gene) from various tissue types. Most aligned to a single region on the sequence and spanned 500 bp or less, but several consisted of five or six regions separated by gaps, suggesting the locations of exons in the gene. Several significant matches to entries in the UniGene database were found, as well, even after masking low-complexity regions and short repeats in the sequence. All matches were to unnamed cDNA clones.

At least 100 significant alignments were found in the nr database, as well. A similarity to hypothetical protein FLJ22457 (UniGene cluster Hs.238707) was found ( $e=0.0$ ). The cDNA of this predicted protein has been isolated from B lymphocytes

(<http://www.ncbi.nlm.nih.gov/entrez/viewer.cgi?save=0&cmd=&cfm=on&f=1&view=gp&txt=0&val=13637988>).

Other significant alignments were to unnamed cDNAs and mRNAs.

Using Genscan, the following 730 residue peptide sequence was predicted from the putative gene:

MDGLGRRRLRA	SLRLKRGHGG	HWRLNEMPYM	KHEFDGGPPQ	DNSGEALKEP	5
ERAQEHSLPN	FAGGQHFFEY	LLVVSLLKKR	SEDDYEPIIT	YQFPKRENLL	1
RGQEEEEERL	LKAIFLCFP	DGNEWASLTE	YPSLSCKTPG	LLAALVVEKA	1
QPRTCCHASA	PSAAPQARGP	DAPSPAAGQA	LPAGPGPRLP	KVYCHISCIG	2
CFGLFSKILD	EVEKRHQISM	AVIYPFMQGL	REAAFPAPGK	TVTLKSFPD	2
SGTEFISLTR	PLDSHLEHVD	FSSLLHCLSF	EQILQIFASA	VLERKIIFLA	3
EGLREEEKDV	RDSTEVRGAG	ECHGFQRKGN	LGKQWGLCVE	DSVKMGDNQR	3
GTSCSTLSQC	IHAAAALLYP	FSWAHTYIPV	VPESLLATVC	CPTPFMVGQV	4
MRFQQEVMDS	PMEEIQPAE	IKTVNPLGVY	EERGPEKASL	CLFQVLLVNL	4
CEGTFILMSVG	DEKDILPPKL	QDDILDSLQ	GINELKTAEQ	INEHVSQPFV	5
QFFVKIVGHY	ASYIKREANG	QGHFQERSFC	KALTSKTNRR	FVKKFVKTQL	5
FSLFIQEAKE	SKNPPAEVTQ	VGNSSTCVVD	TWLEAAATAL	SHHYNIFNTE	6
HTLWSKGSAS	LHEVCGHVRT	RVKRKILFLY	VSLAFTMGKS	IFLVENKAMN	6
MTIKWTTSGR	PGHGDMFGVI	ESWGAAALLL	LTGRVRDTGK	SSSSTGHRAS	7
KSLVWSQVCF	PESWEERLLT	EGKQLQSRVI	SEQ ID NO:8768		

Multiple analyses were performed using this prediction. First, a pairwise comparison of the sequence above and the sequence of FLJ22457, the hypothetical protein mentioned above, using BLASTP version 2.1.2

(<http://ncbi.nlm.nih.gov/BLAST/>), resulted in a match with an expect value of 0.0.

The peptide sequence predicted from clone 596H6 was longer and 19% of the region of alignment between the two resulted from gaps in hypothetical protein FLJ22457. The cause of the discrepancy might be alternative mRNA splicing, alternative post-translational processing, or differences in the peptide-predicting algorithms used to create the two sequences, but the homology between the two is significant.

BLASTP and TBLASTN were also used to search for sequence similarities in the SWISS-PROT, TrEMBL, GenBank Translated, and PDB databases. Matches to several proteins were found, among them a tumor cell suppression protein, HTS1. No

matches aligned to the full length of the peptide sequence, however, suggesting that similarity is limited to a few regions of the peptide.

TBLASTN produced matches to several proteins – both identified and theoretical – but again, no matches aligned to the full length of the peptide sequence. The best alignment was to the same hypothetical protein found in GenBank before (FLJ22457).

To discover similarities to protein families, comparisons of the domains (described above) were carried out using the Pfam and Blocks databases. A search of the Pfam database identified two regions of the peptide domains as belonging to the DENN protein family ( $e=2.1 \times 10^{-33}$ ). The human DENN protein possesses an RGD cellular adhesion motif and a leucine-zipper-like motif associated with protein dimerization, and shows partial homology to the receptor binding domain of tumor necrosis factor alpha. DENN is virtually identical to MADD, a human MAP kinase-activating death domain protein that interacts with type I tumor necrosis factor receptor ([http://srs.ebi.ac.uk/srs6bin/cgi-bin/wgetz?-id+fS5n1GQsHf+-e+\[INTERPRO:IPR001194\]](http://srs.ebi.ac.uk/srs6bin/cgi-bin/wgetz?-id+fS5n1GQsHf+-e+[INTERPRO:IPR001194])). The search of the Blocks database also revealed similarities between regions of the peptide sequence and known protein groups, but none with a satisfactory degree of confidence. In the Blocks scoring system, scores over 1,100 are likely to be relevant. The highest score of any match to the predicted peptide was 1,058.

The Prosite, ProDom, PRINTS databases (all publicly available) were used to conduct further domain and motif analysis. The Prosite search generated many recognized protein domains. A BLASTP search was performed to identify areas of similarity between the protein query sequence and PRINTS, a protein database of protein fingerprints, groups of motifs that together form a characteristic signature of a protein family. In this case, no groups were found to align closely to any section of the submitted sequence. The same was true when the ProDom database was searched with BLASTP.

A prediction of protein structure was done by performing a BLAST search of the sequence against PDB, a database in which every member has tertiary structure information. No significant alignments were found by this method. Secondary and super-secondary structure was examined using the Garnier algorithm. Although it is only considered to be 60-65% accurate, the algorithm provided information on the locations and lengths of alpha-helices, beta-sheets, turns and coils.

The antigenicity of the predicted peptide was modeled by graphing hydrophilicity vs. amino acid number. This produced a visual representation of trends in hydrophilicity along the sequence. Many locations in the sequence showed antigenicity and five sites had antigenicity greater than 2. This information can be used in the design of affinity reagents to the protein.

Membrane-spanning regions were predicted by graphing hydrophobicity vs. amino acid number. Thirteen regions were found to be somewhat hydrophobic. The algorithm TMPred predicted a model with 6 strong transmembrane helices ([http://www.ch.embnet.org/software/TMPRED\\_form.html](http://www.ch.embnet.org/software/TMPRED_form.html)).

NNPSL is a neural network algorithm developed by the Sanger Center. It uses amino acid composition and sequence to predict cellular location. For the peptide sequence submitted, its first choice was mitochondrial (51.1% expected accuracy). Its second choice was cytoplasmic (91.4% expected accuracy).

***Example 6: Further sequence analysis of novel Clone 486E11***

The sequence of clone 486E11 is provided below:

TAAAAGCAGG	CTGTGCACTA	GGGACCTAGT	GACCTTACTA	GAAAAAACTC	5
AAATTCTCTG	AGCCACAAGT	CCTCATGGGC	AAAATGTAGA	TACCACCACC	1
TAACCCTGCC	AATTTCTAT	CATTGTGACT	ATCAAATTAA	ACCACAGGCA	1
GGAAGTTGCC	TTGAAAACCT	TTTATAGTGT	ATATTACTGT	TCACATAGAT	2
NAGCAATTAA	CTTTACATAT	ACCCGTTTTT	AAAAGATCAG	TCCTGTGATT	2
AAAAGTCTGG	CTGCCCTAAT	TCACTTCGAT	TATACATTAG	GTAAAGCCA	3
TATAAAAGAG	GCACTACGTC	TTCGGAGAGA	TGAATGGATA	TTACAAGCAG	3
TAATGTTGGC	TTTGGAATAT	ACACATAATG	TCCACTTGAC	CTCATCTATT	4
TGACACAAAA	TGTAAACTAA	ATTATGAGCA	TCATTAGATA	CCTTGGCCTT	4
TTCAAATCAC	ACAGGGTCCT	AGATCTNNNN	NNNNNNNNNN	NNNNNNNNNN	5
NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNAC	TTTGGGATTC	5
CTATATCTTT	GTCAGCTGTC	AACTTCAGTG	TTTTCAGGTT	AAATTCTATC	6
CATAGTCATC	CCAATATACC	TGCTTTAGAT	GATACAACCT	TCAAAAGATC	6
CGCTCTTCCT	CGTAAAAAGT	GGAG	SEQ ID NO: 8769		

The BLASTN program was used to compare the sequence to the UniGene and dbEST databases. No significant alignments were found in either. It was then searched against the nr database and only alignments to unnamed genomic DNA clones were found.

CAP2 was used to cluster a group of unknowns, including clone 486E11. The sequence for 486E11 was found to overlap others. These formed a contig of 1,010 residues, which is shown below:

CGGACAGGTA	CCTAAAAGCA	GGCTGTGCAC	TAGGGACCTA	GTGACCTTAC	50
TAGAAAAAAC	TCAAATTCTC	TGAGCCACAA	GTCTCATGG	GCAAAATGTA	10
GATACCACCA	CCTAACCTG	CCAATTCCT	ATCATTGTGA	CTATCAAATT	15
AAACCACAGG	CAGGAAGTTG	CCTTGAAAAC	TTTTTATAGT	GTATATTACT	20
GTTACATAG	ATNAGCAATT	AACTTTACAT	ATACCCGTTT	TTAAAAGATC	25
AGTCCTGTGA	TTAAAAGTCT	GGCTGCCCTA	ATTCACTTCG	ATTATACATT	30
AGGTAAAGC	CATATAAAAG	AGGCACTACG	TCTTCGGAGA	GATGAATGGA	35
TATTACAAGC	AGTAATTTTG	GCTTTGGAAT	ATACACATAA	TGTCCACTTG	40
ACCTCATCTA	TTTGACACAA	AATGTAAACT	AAATTATGAG	CATCATTAGA	45
TACCTTGGGC	CTTTTCAAAT	CACACAGGGT	CCTAGATCTG	NNNNNNNNNN	50
NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	55
NACTTTGGAT	TCTTATATCT	TTGTCAGCTG	TCAACTTCAG	TGTTTTCAGG	60
NTAAATTCTA	TCCATAGTCA	TCCCAATATA	CCTGCTTTAG	ATGATACAAA	65
CTTCAAAAGA	TCCGGCTCTC	CCTCGTAAAA	CGTGGAGGAC	AGACATCAAG	70
GGGGTTTTCT	GAGTAAAGAA	AGGCAACCGC	TCGGCAAAAA	CTCACCTGG	75
CACAACAGGA	NCGAATATAT	ACAGACGCTG	ATTGAGCGTT	TTGCTCCATC	80
TTCACTTCTG	TTAAATGAAG	ACATTGATAT	CTAAAATGCT	ATGAGTCTAA	85
CTTTGTAAAA	TTAAAATAGA	TTTGTAGTTA	TTTTTCAAAA	TGAAATCGAA	90
AAGATACAAG	TTTTGAAGGC	AGTCTCTTTT	TCCACCCTGC	CCCTCTAGTG	95
TGTTTTACAC	ACTTCTCTGG	CCACTCCAAC	AGGGAAGCTG	GTCCAGGGCC	100
ATTATACAGG	SEQ ID NO: 8832				

The sequence of the CAP2 contig was used in a BLAST search of the human genome. 934 out of 1,010 residues aligned to a region of chromosome 21. A gap of 61 residues divided the aligned region into two smaller fragments. The sequence of this region, plus 100 kilobases on each side of it, was downloaded and analyzed using the Genscan site at MIT (<http://genes.mit.edu/GENSCAN.html>), with the following settings:

Organism: vertebrate

Suboptimal exon cutoff: 1.00 (no suboptimal exons)

Print options: Predicted CDS and peptides



The fragment was found to fall within one of several predicted genes in the chromosome region. The bases corresponding to the predicted gene, including its predicted introns, were saved as a separate file and used to search GenBank again with BLASTN to find any ESTs or UniGene clusters identified by portions of the sequence not included in the original unknown fragment. The nr database contained no significant matches. At least 100 significant matches to various parts of the predicted gene were found in the dbEST database, but all of them were to unnamed cDNA clones. Comparison to UniGene produced fewer significant matches, but all matches were to unnamed cDNAs.

The peptide sequence predicted by Genscan was also saved. Multiple types of analyses were performed on it using the resources mentioned in Table 3. BLASTP and TBLASTN were used to search the TrEMBL protein database (<http://www.expasy.ch/sprot/>) and the GenBank nr database (<http://www.ncbi.nlm.nih.gov/BLAST/>), which includes data from the SwissProt, PIR, PRF, and PDB databases. No significant matches were found in any of these, so no gene identity or tertiary structure was discovered.

The peptide sequence was also searched for similarity to known domains and motifs using BLASTP with the Prosite, Blocks, Pfam, and ProDom databases. The searches produced no significant alignments to known domains. BLASTP comparison to the PRINTS database produced an alignment to the P450 protein family, but with a low probability of accuracy ( $e=6.9$ ).

Two methods were used to predict secondary structure -- the Garnier/Osguthorpe/Robson model and the Chou-Fasman model. The two methods differed somewhat in their results, but both produced representations of the peptide sequence with helical and sheet regions and locations of turns.

Antigenicity was plotted as a graph with amino acid number in the sequence on the x-axis and hydrophilicity on the y-axis. Several areas of antigenicity were observed, but only one with antigenicity greater than 2. Hydrophobicity was plotted in the same way. Only one region, from approximately residue 135 to residue 150, had notable hydrophobicity. TMpred, accessed through ExPASy, was used to predict transmembrane helices. No regions of the peptide sequence were predicted with reasonable confidence to be membrane-spanning helices.

NNPSL predicted that the putative protein would be found either in the nucleus (expected prediction accuracy = 51.1%) or secreted from the cell (expected prediction accuracy = 91.4%).

***Example 7: Preparation of a leukocyte cDNA array comprising a candidate gene library***

Candidate genes and gene sequences for leukocyte expression profiling were identified through methods described elsewhere in this document. Candidate genes are used to obtain or design probes for peripheral leukocyte expression profiling in a variety of ways.

A cDNA microarray carrying 384 probes was constructed using sequences selected from the cDNA libraries described in example 1. cDNAs were selected from T-cell libraries, PBMC libraries and buffy coat libraries. A listing of the cDNA fragments used is given in Table 8.

***96-Well PCR***

Plasmids were isolated in 96-well format and PCR was performed in 96-well format. A master mix was made that contain the reaction buffer, dNTPs, forward and reverse primer and DNA polymerase was made. 99 ul of the master mix was aliquoted into 96-well plate. 1 ul of plasmid (1-2 ng/ul) of plasmid was added to the plate. The final reaction concentration was 10 mM Tris pH 8.3, 3.5 mM MgCl<sub>2</sub>, 25 mM KCl, 0.4 mM dNTPs, 0.4 uM M13 forward primer, 0.4 M13 reverse primer, and 10 U of Taq Gold (Applied Biosystems). The PCR conditions were:

Step 1 95C for 10 min

Step 2 95C for 15 sec

Step 3 56C for 30 sec

Step 4 72C for 2 min 15 seconds

Step 5 go to Step 2 39 times

Step 6 72C for 10 minutes

Step 7 4C for ever.

***PCR Purification***

PCR purification was done in a 96-well format. The ArrayIt (Telechem International, Inc.) PCR purification kit was used and the provided protocol was followed without modification. Before the sample was evaporated to dryness, the

concentration of PCR products was determined using a spectrophotometer. After evaporation, the samples were re-suspended in 1x Micro Spotting Solution (ArrayIt) so that the majority of the samples were between 0.2-1.0 ug/ul.

#### *Array Fabrication*

Spotted cDNA microarrays were then made from these PCR products by ArrayIt using their protocols ([http://arrayit.com/Custom\\_Microarrays/Flex-Chips/flex-chips.html](http://arrayit.com/Custom_Microarrays/Flex-Chips/flex-chips.html)). Each fragment was spotted 3 times onto each array.

Candidate genes and gene sequences for leukocyte expression profiling were identified through methods described elsewhere in this document. Those candidate genes are used for peripheral leukocyte expression profiling. The candidate libraries can be used to obtain or design probes for expression profiling in a variety of ways.

Oligonucleotide probes are also prepared using the DNA sequence information for the candidate genes identified by differential hybridization screening (listed in Table 3 and the sequence listing) and/or the sequence information for the genes identified by database mining (listed in Table 2) is used to design complementary oligonucleotide probes. Oligo probes are designed on a contract basis by various companies (for example, Compugen, Mergen, Affymetrix, Telechem), or designed from the candidate sequences using a variety of parameters and algorithms as indicated at <http://www.genome.wi.mit.edu/cgi-bin/primer/primer3.cgi>. Briefly, the length of the oligonucleotide to be synthesized is determined, preferably greater than 18 nucleotides, generally 18-24 nucleotides, 24-70 nucleotides and, in some circumstances, more than 70 nucleotides. The sequence analysis algorithms and tools described above are applied to the sequences to mask repetitive elements, vector sequences and low complexity sequences. Oligonucleotides are selected that are specific to the candidate nucleotide sequence (based on a Blast n search of the oligonucleotide sequence in question against gene sequences databases, such as the Human Genome Sequence, UniGene, dbEST or the non-redundant database at NCBI), and have <50% G content and 25-70% G+C content. Desired oligonucleotides are synthesized using well-known methods and apparatus, or ordered from a company (for example Sigma). Oligonucleotides are spotted onto microarrays. Alternatively, oligonucleotides are synthesized directly on the array surface, using a variety of techniques (Hughes et al. 2001, Yershov et al. 1996, Lockhart et al 1996).

***Example 8: Preparation of RNA from mononuclear cells for expression profiling***

Blood was isolated from the subject for leukocyte expression profiling using the following methods:

Two tubes were drawn per patient. Blood was drawn from either a standard peripheral venous blood draw or directly from a large-bore intra-arterial or intravenous catheter inserted in the femoral artery, femoral vein, subclavian vein or internal jugular vein. Care was taken to avoid sample contamination with heparin from the intravascular catheters, as heparin can interfere with subsequent RNA reactions.

For each tube, 8 ml of whole blood was drawn into a tube (CPT, Becton-Dickinson order #362753) containing the anticoagulant Citrate, 25°C density gradient solution (e.g. Ficoll, Percoll) and a polyester gel barrier that upon centrifugation was permeable to RBCs and granulocytes but not to mononuclear cells. The tube was inverted several times to mix the blood with the anticoagulant. The tubes were centrifuged at 1750xg in a swing-out rotor at room temperature for 20 minutes. The tubes were removed from the centrifuge and inverted 5-10 times to mix the plasma with the mononuclear cells, while trapping the RBCs and the granulocytes beneath the gel barrier. The plasma/mononuclear cell mix was decanted into a 15ml tube and 5ml of phosphate-buffered saline (PBS) is added. The 15ml tubes were spun for 5 minutes at 1750xg to pellet the cells. The supernatant was discarded and 1.8 ml of RLT lysis buffer is added to the mononuclear cell pellet. The buffer and cells were pipetted up and down to ensure complete lysis of the pellet. The cell lysate was frozen and stored until it is convenient to proceed with isolation of total RNA.

Total RNA was purified from the lysed mononuclear cells using the Qiagen Rneasy Miniprep kit, as directed by the manufacturer (10/99 version) for total RNA isolation, including homogenization (Qias shredder columns) and on-column DNase treatment. The purified RNA was eluted in 50ul of water. The further use of RNA prepared by this method is described in Example 11, 24, and 23.

Some samples were prepared by a different protocol, as follows:

Two 8 ml blood samples were drawn from a peripheral vein into a tube (CPT, Becton-Dickinson order #362753) containing anticoagulant (Citrate), 25°C density gradient solution (Ficoll) and a polyester gel barrier that upon centrifugation is permeable to RBCs and granulocytes but not to mononuclear cells. The mononuclear cells and plasma remained above the barrier while the RBCs and granulocytes were

trapped below. The tube was inverted several times to mix the blood with the anticoagulant, and the tubes were subjected to centrifugation at 1750xg in a swing-out rotor at room temperature for 20 min. The tubes were removed from the centrifuge, and the clear plasma layer above the cloudy mononuclear cell layer was aspirated and discarded. The cloudy mononuclear cell layer was aspirated, with care taken to rinse all of the mononuclear cells from the surface of the gel barrier with PBS (phosphate buffered saline). Approximately 2 mls of mononuclear cell suspension was transferred to a 2ml microcentrifuge tube, and centrifuged for 3min. at 16,000 rpm in a microcentrifuge to pellet the cells. The supernatant was discarded and 1.8 ml of RLT lysis buffer (Qiagen) were added to the mononuclear cell pellet, which lysed the cells and inactivated Rnases. The cells and lysis buffer were pipetted up and down to ensure complete lysis of the pellet. Cell lysate was frozen and stored until it was convenient to proceed with isolation of total RNA.

RNA samples were isolated from 8 mL of whole blood. Yields ranged from 2 ug to 20ug total RNA for 8mL blood. A260/A280 spectrophotometric ratios were between 1.6 and 2.0, indicating purity of sample. 2ul of each sample were run on an agarose gel in the presence of ethidium bromide. No degradation of the RNA sample and no DNA contamination was visible.

***Example 9: Preparation of Buffy Coat Control RNA for use in leukocyte expression profiling***

Control RNA was prepared using total RNA from Buffy coats and/or total RNA from enriched mononuclear cells isolated from Buffy coats, both with and without stimulation with ionomycin and PMA. The following control RNAs were prepared:

Control 1: Buffy Coat Total RNA

Control 2: Mononuclear cell Total RNA

Control 3: Stimulated buffy coat Total RNA

Control 4: Stimulated mononuclear Total RNA

Control 5: 50% Buffy coat Total RNA / 50% Stimulated buffy coat Total RNA

Control 6: 50% Mononuclear cell Total RNA / 50% Stimulated Mononuclear Total RNA

Some samples were prepared using the following protocol: Buffy coats from 38 individuals were obtained from Stanford Blood Center. Each buffy coat is derived from ~350 mL whole blood from one individual. 10 ml buffy coat was removed from the bag, and placed into a 50 ml tube. 40 ml of Buffer EL (Qiagen) was added, the tube was mixed and placed on ice for 15 minutes, then cells were pelleted by centrifugation at 2000xg for 10 minutes at 4°C. The supernatant was decanted and the cell pellet was re-suspended in 10 ml of Qiagen Buffer EL. The tube was then centrifuged at 2000xg for 10 minutes at 4°C. The cell pellet was then re-suspended in 20 ml TRIZOL (GibcoBRL) per Buffy coat sample, the mixture was shredded using a rotary homogenizer, and the lysate was then frozen at -80°C prior to proceeding to RNA isolation.

Other control RNAs were prepared from enriched mononuclear cells prepared from Buffy coats. Buffy coats from Stanford Blood Center were obtained, as described above. 10 ml buffy coat was added to a 50 ml polypropylene tube, and 10 ml of phosphate buffer saline (PBS) was added to each tube. A polysucrose (5.7 g/dL) and sodium diatrizoate (9.0 g/dL) solution at a 1.077 +/-0.0001 g/ml density solution of equal volume to diluted sample was prepared (Histopaque 1077, Sigma cat. no 1077-1). This and all subsequent steps were performed at room temperature. 15 ml of diluted buffy coat/PBS was layered on top of 15 ml of the histopaque solution in a 50 ml tube. The tube was centrifuged at 400xg for 30 minutes at room temperature. After centrifugation, the upper layer of the solution to within 0.5 cm of the opaque interface containing the mononuclear cells was discarded. The opaque interface was transferred into a clean centrifuge tube. An equal volume of PBS was added to each tube and centrifuged at 350xg for 10 minutes at room temperature. The supernatant was discarded. 5 ml of Buffer EL (Qiagen) was used to resuspend the remaining cell pellet and the tube was centrifuged at 2000xg for 10 minutes at room temperature. The supernatant was discarded. The pellet was resuspended in 20 ml of TRIZOL (GibcoBRL) for each individual buffy coat that was processed. The sample was homogenized using a rotary homogenizer and frozen at -80C until RNA was isolated.

RNA was isolated from frozen lysed Buffy coat samples as follows: frozen samples were thawed, and 4 ml of chloroform was added to each buffy coat sample. The sample was mixed by vortexing and centrifuged at 2000xg for 5 minutes. The aqueous layer was moved to new tube and then repurified by using the RNeasy Maxi

RNA clean up kit, according to the manufacturer's instruction (Qiagen, PN 75162). The yield, purity and integrity were assessed by spectrophotometer and gel electrophoresis.

Some samples were prepared by a different protocol, as follows. The further use of RNA prepared using this protocol is described in Example 11.

50 whole blood samples were randomly selected from consented blood donors at the Stanford Medical School Blood Center. Each buffy coat sample was produced from ~350 mL of an individual's donated blood. The whole blood sample was centrifuged at  $\sim 4,400 \times g$  for 8 minutes at room temperature, resulting in three distinct layers: a top layer of plasma, a second layer of buffy coat, and a third layer of red blood cells. 25 ml of the buffy coat fraction was obtained and diluted with an equal volume of PBS (phosphate buffered saline). 30 ml of diluted buffy coat was layered onto 15 ml of sodium diatrizoate solution adjusted to a density of  $1.077 \pm 0.001$  g/ml (Histopaque 1077, Sigma) in a 50mL plastic tube. The tube was spun at  $800 \times g$  for 10 minutes at room temperature. The plasma layer was removed to the 30 ml mark on the tube, and the mononuclear cell layer removed into a new tube and washed with an equal volume of PBS, and collected by centrifugation at  $2000 \times g$  for 10 minutes at room temperature. The cell pellet was resuspended in 10 ml of Buffer EL (Qiagen) by vortexing and incubated on ice for 10 minutes to remove any remaining erythrocytes. The mononuclear cells were spun at  $2000 \times g$  for 10 minutes at 4 degrees Celsius. The cell pellet was lysed in 25 ml of a phenol/guanidinium thiocyanate solution (TRIZOL Reagent, Invitrogen). The sample was homogenized using a PowerGene 5 rotary homogenizer (Fisher Scientific) and Omini disposable generator probes (Fisher Scientific). The Trizol lysate was frozen at  $-80$  degrees C until the next step.

The samples were thawed out and incubated at room temperature for 5 minutes. 5 ml chloroform was added to each sample, mixed by vortexing, and incubated at room temperature for 3 minutes. The aqueous layers were transferred to new 50 ml tubes. The aqueous layer containing total RNA was further purified using the Qiagen RNeasy Maxi kit (PN 75162), per the manufacturer's protocol (October 1999). The columns were eluted twice with 1 ml Rnase-free water, with a minute incubation before each spin. Quantity and quality of RNA was assessed using standard methods. Generally, RNA was isolated from batches of 10 buffy coats at a

time, with an average yield per buffy coat of 870 µg, and an estimated total yield of 43.5 mg total RNA with a 260/280 ratio of 1.56 and a 28S/18S ratio of 1.78.

Quality of the RNA was tested using the Agilent 2100 Bioanalyzer using RNA 6000 microfluidics chips. Analysis of the electrophorograms from the Bioanalyzer for five different batches demonstrated the reproducibility in quality between the batches.

Total RNA from all five batches were combined and mixed in a 50 ml tube, then aliquoted as follows: 2 x 10 ml aliquots in 15 ml tubes, and the rest in 100 µl aliquots in 1.5 ml microcentrifuge tubes. The aliquots gave highly reproducible results with respect to RNA purity, size and integrity. The RNA was stored at -80°C.

#### Test hybridization of Reference RNA

The reference RNA (hereinafter, "R50") was hybridized to a spotted cDNA array (prepared as described in Example 10). There are a total of 1152 features on the array: 384 clones printed in triplicate. The R50 targets were fluorescently labeled with Cy-5 using methods described herein. In five array hybridizations, the reference RNA detected 94% of probes on the array with a Signal to Noise ratio of greater than three. 99% of probes on the array were detected with a signal to noise ratio of greater than one. Figure 8 shows one array hybridization. The probes are ordered from high to low in signal to noise ratio, and the log of median and the log of the background were plotted for each probe.

#### ***Example 10. RNA Labeling and hybridization to a leukocyte cDNA array of candidate nucleotide sequences.***

##### Comparison of Guanidine-Silica to Acid-Phenol RNA Purification (GSvsAP)

These data are from a set of 12 hybridizations designed to identify differences between the signal strength from two different RNA purification methods. The two RNA methods used were guanidine-silica (GS, Qiagen) and acid-phenol (AP, Trizol, Gibco BRL). Ten tubes of blood were drawn from each of four people. Two were used for the AP prep, the other eight were used for the GS prep. The protocols for the leukocyte RNA preps using the AP and GS techniques were completed as described here:

##### Guanidine-silica (GS) method:

For each tube, 8ml blood was drawn into a tube containing the anticoagulant Citrate, 25°C density gradient solution and a polyester gel barrier that upon centrifugation is permeable to RBCs and granulocytes but not to mononuclear cells.



The mononuclear cells and plasma remained above the barrier while the RBCs and granulocytes were trapped below. CPT tubes from Becton-Dickinson (#362753) were used for this purpose. The tube was inverted several times to mix the blood with the anticoagulant. The tubes were immediately centrifuged @1750xg in a swinging bucket rotor at room temperature for 20 min. The tubes were removed from the centrifuge and inverted 5-10 times. This mixed the plasma with the mononuclear cells, while the RBCs and the granulocytes remained trapped beneath the gel barrier. The plasma/mononuclear cell mix was decanted into a 15ml tube and 5ml of phosphate-buffered saline (PBS) was added. The 15ml tubes are spun for 5 minutes at 1750xg to pellet the cells. The supernatant was discarded and 1.8 ml of RLT lysis buffer (guanidine isothiocyanate) was added to the mononuclear cell pellet. The buffer and cells were pipetted up and down to ensure complete lysis of the pellet. The cell lysate was then processed exactly as described in the Qiagen Rneasy Miniprep kit protocol (10/99 version) for total RNA isolation (including steps for homogenization (Qias shredder columns) and on-column DNase treatment. The purified RNA was eluted in 50ul of water.

Acid-phenol (AP) method:

For each tube, 8ml blood was drawn into a tube containing the anticoagulant Citrate, 25°C density gradient solution and a polyester gel barrier that upon centrifugation is permeable to RBCs and granulocytes but not to mononuclear cells. The mononuclear cells and plasma remained above the barrier while the RBCs and granulocytes were trapped below. CPT tubes from Becton-Dickinson (#362753) were used for this purpose. The tube was inverted several times to mix the blood with the anticoagulant. The tubes were immediately centrifuged @1750xg in a swinging bucket rotor at room temperature for 20 min. The tubes were removed from the centrifuge and inverted 5-10 times. This mixed the plasma with the mononuclear cells, while the RBCs and the granulocytes remained trapped beneath the gel barrier. The plasma/mononuclear cell mix was decanted into a 15ml tube and 5ml of phosphate-buffered saline (PBS) was added. The 15ml tubes are spun for 5 minutes @1750xg to pellet the cells. The supernatant was discarded and the cell pellet was lysed using 0.6 mL Phenol/guanidine isothiocyanate (e.g. Trizol reagent, GibcoBRL). Subsequent total RNA isolation proceeded using the manufacturers protocol.

RNA from each person was labeled with either Cy3 or Cy5, and then hybridized in pairs to the mini-array. For instance, the first array was hybridized with GS RNA from one person (Cy3) and GS RNA from a second person (Cy5).

Techniques for labeling and hybridization for all experiments discussed here were completed as detailed above in example 10. Arrays were prepared as described in example 7.

RNA isolated from subject samples, or control Buffy coat RNA, were labeled for hybridization to a cDNA array. Total RNA (up to 100  $\mu$ g) was combined with 2  $\mu$ l of 100  $\mu$ M solution of an Oligo (dT)12-18 (GibcoBRL) and heated to 70°C for 10 minutes and place on ice. Reaction buffer was added to the tube, to a final concentration of 1xRT buffer (GibcoBRL), 10 mM DTT (GibcoBRL), 0.1 mM unlabeled dATP, dTTP, and dGTP, and 0.025 mM unlabeled dCTP, 200 pg of CAB (*A. thaliana* photosystem I chlorophyll a/b binding protein), 200 pg of RCA (*A. thaliana* RUBISCO activase), 0.25 mM of Cy-3 or Cy-5 dCTP, and 400 U Superscript II RT (GibcoBRL).

The volumes of each component of the labeling reaction were as follows: 20  $\mu$ l of 5xRT buffer; 10  $\mu$ l of 100 mM DTT; 1  $\mu$ l of 10 mM dNTPs without dCTP; 0.5  $\mu$ l of 5 mM CTP; 13  $\mu$ l of H<sub>2</sub>O; 0.02  $\mu$ l of 10 ng/ $\mu$ l CAB and RCA; 1  $\mu$ l of 40 Units/ $\mu$ l RNaseOUT Recombinant Ribonuclease Inhibitor (GibcoBRL); 2.5  $\mu$ l of 1.0 mM Cy-3 or Cy-5 dCTP; and 2.0  $\mu$ l of 200 Units/ $\mu$ l of Superscript II RT. The sample was vortexed and centrifuged. The sample was incubated at 4°C for 1 hour for first strand cDNA synthesis, then heated at 70°C for 10 minutes to quench enzymatic activity. 1  $\mu$ l of 10 mg/ml of Rnase A was added to degrade the RNA strand, and the sample was incubated at 37°C for 30 minutes.

Next, the Cy-3 and Cy-5 cDNA samples were combined into one tube. Unincorporated nucleotides were removed using QIAquick RCR purification protocol (Qiagen), as directed by the manufacturer. The sample was evaporated to dryness and resuspended in 5  $\mu$ l of water. The sample was mixed with hybridization buffer containing 5xSSC, 0.2% SDS, 2 mg/ml Cot-1 DNA (GibcoBRL), 1 mg/ml yeast tRNA (GibcoBRL), and 1.6 ng/ $\mu$ l poly dA40-60 (Pharmacia). This mixture was placed on the microarray surface and a glass cover slip was placed on the array (Corning). The microarray glass slide was placed into a hybridization chamber (ArrayIt). The chamber was then submerged in a water bath overnight at 62° C. The

microarray was removed from the cassette and the cover slip was removed by repeatedly submerging it to a wash buffer containing 1xSSC, and 0.1% SDS. The microarray slide was washed in 1xSSC/0.1% SDS for 5 minutes. The slide was then washed in 0.1%SSC/0.1% SDS for 5 minutes. The slide was finally washed in 0.1xSSC for 2 minutes. The slide was spun at 1000 rpm for 2 minutes to dry out the slide, then scanned on a microarray scanner (Axon Instruments, Union City, CA.).

Six hybridizations with 20 µg of RNA were performed for each type of RNA preparation (GS or AP). Since both the Cy3 and the Cy5 labeled RNA are from test preparations, there are six data points for each GS prepped, Cy3-labeled RNA and six for each GS-prepped, Cy5-labeled RNA. The mini array hybridizations were scanned on an Axon Instruments scanner using GenPix 3.0 software. The data presented were derived as follows. First, all features flagged as "not found" by the software were removed from the dataset for individual hybridizations. These features are usually due to high local background or other processing artifacts. Second, the median fluorescence intensity minus the background fluorescence intensity was used to calculate the mean background subtracted signal for each dye for each hybridization. In Figure 4, the mean of these means across all six hybridizations is graphed (n=6 for each column). The error bars are the SEM. This experiment shows that the average signal from AP prepared RNA is 47% of the average signal from GS prepared RNA for both Cy3 and Cy5.

#### Generation of expression data for leukocyte genes from peripheral leukocyte samples

Six hybridizations were performed with RNA purified from human blood leukocytes using the protocols given above. Four of the six were prepared using the GS method and 2 were prepared using the AP method. Each preparation of leukocyte RNA was labeled with Cy3 and 10 µg hybridized to the mini-array. A control RNA was batch labeled with Cy5 and 10 µg hybridized to each mini-array together with the Cy3-labeled experimental RNA.

The control RNA used for these experiments was Control 1: Buffy Coat RNA, as described above. The protocol for the preparation of that RNA is reproduced here:

#### Buffy Coat RNA Isolation:

Buffy coats were obtained from Stanford Blood Center (in total 38 individual buffy coats were used. Each buffy coat is derived from ~350 mL whole blood from

one individual. 10 ml buffy coat was taken and placed into a 50 ml tube and 40 ml of a hypochlorous acid (HOCl) solution (Buffer EL from Qiagen) was added. The tube was mixed and placed on ice for 15 minutes. The tube was then centrifuged at 2000xg for 10 minutes at 4°C. The supernatant was decanted and the cell pellet was re-suspended in 10 ml of hypochlorous acid solution (Qiagen Buffer EL). The tube was then centrifuged at 2000xg for 10 minutes at 4°C. The cell pellet was then re-suspended in 20 ml phenol/guanidine thiocyanate solution (TRIZOL from GibcoBRL) for each individual buffy coat that was processed. The mixture was then shredded using a rotary homogenizer. The lysate was then frozen at -80°C prior to proceeding to RNA isolation.

The arrays were then scanned and analyzed on an Axon Instruments scanner using GenePix 3.0 software. The data presented were derived as follows. First, all features flagged as "not found" by the software were removed from the dataset for individual hybridizations. Second, control features were used to normalize the data for labeling and hybridization variability within the experiment. The control features are cDNA for genes from the plant, *Arabidopsis thaliana*, that were included when spotting the mini-array. Equal amounts of RNA complementary to two of these cDNAs were added to each of the samples before they were labeled. A third was pre-labeled and equal amounts were added to each hybridization solution before hybridization. Using the signal from these genes, we derived a normalization constant ( $L_j$ ) according to the following formula:

$$L_j = \frac{\sum_{i=1}^N BGSS_{j,i}}{\sum_{j=1}^K \frac{\sum_{i=1}^N BGSS_{j,i}}{N}}$$

where  $BGSS_i$  is the signal for a specific feature as identified in the GenePix software as the median background subtracted signal for that feature,  $N$  is the number of *A. thaliana* control features,  $K$  is the number of hybridizations, and  $L$  is the normalization constant for each individual hybridization.

Using the formula above, the mean over all control features of a particular hybridization and dye (eg Cy3) was calculated. Then these control feature means for all Cy3 hybridizations were averaged. The control feature mean in one hybridization divided by the average of all hybridizations gives a normalization constant for that particular Cy3 hybridization.

The same normalization steps were performed for Cy3 and Cy5 values, both fluorescence and background. Once normalized, the background Cy3 fluorescence was subtracted from the Cy3 fluorescence for each feature. Values less than 100 were eliminated from further calculations since low values caused spurious results.

Figure 5 shows the average background subtracted signal for each of nine leukocyte-specific genes on the mini array. This average is for 3-6 of the above-described hybridizations for each gene. The error bars are the SEM. Figure 3: The ratio of Cy3 to Cy5 signal is shown for a number of genes. This ratio corrects for variability among hybridizations and allows comparison between experiments done at different times. The ratio is calculated as the Cy3 background subtracted signal divided by the Cy5 background subtracted signal. Each bar is the average for 3-6 hybridizations. The error bars are SEM.

Together, these results show that we can measure expression levels for genes that are expressed specifically in sub-populations of leukocytes. These expression measurements were made with only 10 µg of leukocyte total RNA that was labeled directly by reverse transcription. The signal strength can be increased by improved labeling techniques that amplify either the starting RNA or the signal fluorescence. In addition, scanning techniques with higher sensitivity can be used.

Genes in Figures 5 and 6:

Gene Name/Description	GenBank Accession Number	Gene Name Abbreviation
T cell-specific tyrosine kinase Mrna	L10717	TKTCS
Interleukin 1 alpha (IL 1) mRNA, complete cds	NM_000575	IL1A
T-cell surface antigen CD2 (T11) mRNA, complete cds	M14362	CD2
Interleukin-13 (IL-13) precursor gene, complete cds	U31120	IL-13
Thymocyte antigen CD1a mRNA, complete cds	M28825	CD1a

CD6 mRNA for T cell glycoprotein CDS	NM_006725	CD6
MHC class II HLA-DQA1 mRNA, complete cds	U77589	HLA-DQA1
Granulocyte colony-stimulating factor	M28170	CD19
Homo sapiens CD69 antigen	NM_001781	CD69

***Example 11: Identification of diagnostic gene sets useful in diagnosis and treatment of Cardiac allograft rejection***

An observational study was conducted in which a prospective cohort of cardiac transplant recipients were analyzed for associations between clinical events or rejection grades and expression of a leukocyte candidate nucleotide sequence library. Patients were identified at 4 cardiac transplantation centers while on the transplant waiting list or during their routing post-transplant care. All adult cardiac transplant recipients (new or re-transplants) who received an organ at the study center during the study period or within 3 months of the start of the study period were eligible. The first year after transplantation is the time when most acute rejection occurs and it is thus important to study patients during this period. Patients provided informed consent prior to study procedures.

Peripheral blood leukocyte samples were obtained from all patients at the following time points: prior to transplant surgery (when able), the same day as routinely scheduled screening biopsies, upon evaluation for suspected acute rejection (urgent biopsies), on hospitalization for an acute complication of transplantation or immunosuppression, and when Cytomegalovirus (CMV) infection was suspected or confirmed. Samples were obtained through a standard peripheral vein blood draw or through a catheter placed for patient care (for example, a central venous catheter placed for endocardial biopsy). When blood was drawn from an intravenous line, care was taken to avoid obtaining heparin with the sample as it can interfere with downstream reactions involving the RNA. Mononuclear cells were prepared from whole blood samples as described in Example 8. Samples were processed within 2 hours of the blood draw and DNA and serum were saved in addition to RNA. Samples were stored at  $-70^{\circ}\text{C}$  or on dry ice and sent to the site of RNA preparation in a sealed container with ample dry ice. RNA was isolated from subject samples as

described in Example 8 and hybridized to a candidate library of differentially expressed leukocyte nucleotide sequences, as further described in Examples 20-22. Methods used for amplification, labeling, hybridization and scanning are described in example 23. Analysis of human transplant patient mononuclear cell RNA hybridized to a microarray is shown in Example 24.

From each patient, clinical information was obtained at the following time points: prior to transplant surgery (when available), the same day as routinely scheduled screening biopsies, upon evaluation for suspected acute rejection (e.g., urgent biopsies), on hospitalization for an acute complication of transplantation or immunosuppression, and when Cytomegalovirus (CMV) infection was suspected or confirmed. Data was collected directly from the patient, from the patient's medical record, from diagnostic test reports or from computerized hospital databases. It was important to collect all information pertaining to the study clinical correlates (diagnoses and patient events and states to which expression data is correlated) and confounding variables (diagnoses and patient events and states that may result in altered leukocyte gene expression. Examples of clinical data collected are: patient sex, date of birth, date of transplant, race, requirement for prospective cross match, occurrence of pre-transplant diagnoses and complications, indication for transplantation, severity and type of heart disease, history of left ventricular assist devices, all known medical diagnoses, blood type, HLA type, viral serologies (including CMV, Hepatitis B and C, HIV and others), serum chemistries, white and red blood cell counts and differentials, CMV infections (clinical manifestations and methods of diagnosis), occurrence of new cancer, hemodynamic parameters measured by catheterization of the right or left heart (measures of graft function), results of echocardiography, results of coronary angiograms, results of intravascular ultrasound studies (diagnosis of transplant vasculopathy), medications, changes in medications, treatments for rejection, and medication levels. Information was also collected regarding the organ donor, including demographics, blood type, HLA type, results of screening cultures, results of viral serologies, primary cause of brain death, the need for inotropic support, and the organ cold ischemia time.

Of great importance was the collection of the results of endocardial biopsy for each of the patients at each visit. Biopsy results were all interpreted and recorded using the international society for heart and lung transplantation (ISHLT) criteria, described below. Biopsy pathological grades were determined by experienced

pathologists at each center. It is desirable to have a single centralized pathologist determine the grades when an analysis is done using samples from multiple medical centers.

#### ISHLT Criteria

Grade	Finding	Rejection Severity
0	No lymphocytic infiltrates	None
1A	Focal (perivascular or interstitial lymphocytic infiltrates without necrosis)	Borderline mild
1B	Diffuse but sparse lymphocytic infiltrates without necrosis	Mild
2	One focus only with aggressive lymphocytic infiltrate and/or myocyte damage	Mild, focal moderate
3A	Multifocal aggressive lymphocytic infiltrates and/or myocardial damage	Moderate
3B	Diffuse inflammatory lymphocytic infiltrates with necrosis	Borderline Severe
4	Diffuse aggressive polymorphous lymphocytic infiltrates with edema hemorrhage and vasculitis, with necrosis	Severe

Clinical data was entered and stored in a database. The database was queried to identify all patients and patient visits that meet desired criteria (for example, patients with > grade II biopsy results, no CMV infection and time since transplant < 12 weeks).

The collected clinical data (disease criteria) is used to define patient or sample groups for correlation of expression data. Patient groups are identified for comparison, for example, a patient group that possesses a useful or interesting clinical distinction, versus a patient group that does not possess the distinction. Examples of useful and interesting patient distinctions that can be made on the basis of collected clinical data are listed here (and further described in Table 2):

1. Rejection episode of at least moderate histologic grade, which results in treatment of the patient with additional corticosteroids, anti-T cell antibodies, or total lymphoid irradiation.



2. Rejection with histologic grade 2 or higher.
3. Rejection with histologic grade  $\leq 2$ .
4. The absence of histologic rejection and normal or unchanged allograft function (based on hemodynamic measurements from catheterization or on echocardiographic data).
5. The presence of severe allograft dysfunction or worsening allograft dysfunction during the study period (based on hemodynamic measurements from catheterization or on echocardiographic data).
6. Documented CMV infection by culture, histology, or PCR, and at least one clinical sign or symptom of infection.
7. Specific graft biopsy rejection grades
8. Rejection of mild to moderate histologic severity prompting augmentation of the patient's chronic immunosuppressive regimen
9. Rejection of mild to moderate severity with allograft dysfunction prompting plasmaphoresis or a diagnosis of "humoral" rejection
10. Infections other than CMV, esp. Epstein Barr virus (EBV)
11. Lymphoproliferative disorder (also called, post-transplant lymphoma)
12. Transplant vasculopathy diagnosed by increased intimal thickness on intravascular ultrasound (IVUS), angiography, or acute myocardial infarction.
13. Graft Failure or Retransplantation
14. All cause mortality

Expression profiles of subject samples are examined to discover sets of nucleotide sequences with differential expression between patient groups, for example, by methods describes above and below.

Non-limiting examples of patient leukocyte samples to obtain for discovery of various diagnostic nucleotide sets are as follows:

- a. Leukocyte set to avoid biopsy or select for biopsy:  
Samples : Grade 0 vs. Grades 1-4
- b. Leukocyte set to monitor therapeutic response:  
Examine successful vs. unsuccessful drug treatment.  
  
Samples:  
Successful: Time 1: rejection, Time 2: drug therapy Time 3: no rejection  
Unsuccessful: Time 1: rejection, Time 2: drug therapy, Time 3: rejection
- c. Leukocyte set to predict subsequent acute rejection.  
Biopsy may show no rejection, but the patient may develop rejection shortly thereafter. Look at profiles of patients who subsequently do and do not develop rejection.  
  
Samples:  
Group 1 (Subsequent rejection): Time 1: Grade 0; Time 2: Grade  $\geq 0$

Group 2 (No subsequent rejection): Time 1: Grade 0, ; Time 2: Grade 0

Focal rejection may be missed by biopsy. When this occurs the patient may have a Grade 0, but actually has rejection. These patients may go on to have damage to the graft etc.

Samples:

Non-rejectors: no rejection over some period of time

Rejectors: an episode of rejection over same period

- d. Leukocyte set to diagnose subsequent or current graft failure:

Samples:

Echocardiographic or catheterization data to define worsening function over time and correlate to profiles.

- e. Leukocyte set to diagnose impending active CMV:

Samples:

Look at patients who are CMV IgG positive. Compare patients with subsequent (to a sample) clinical CMV infection verses no subsequent clinical CMV infection.

- f. Leukocyte set to diagnose current active CMV:

Samples:

Analyze patients who are CMV IgG positive. Compare patients with active current clinical CMV infection vs. no active current CMV infection.

Upon identification of a nucleotide sequence or set of nucleotide sequences that distinguish patient groups with a high degree of accuracy, that nucleotide sequence or set of nucleotide sequences is validated, and implemented as a diagnostic test. The use of the test depends on the patient groups that are used to discover the nucleotide set. For example, if a set of nucleotide sequences is discovered that have collective expression behavior that reliably distinguishes patients with no histological rejection or graft dysfunction from all others, a diagnostic is developed that is used to screen patients for the need for biopsy. Patients identified as having no rejection do not need biopsy, while others are subjected to a biopsy to further define the extent of disease. In another example, a diagnostic nucleotide set that determines continuing graft rejection associated with myocyte necrosis ( $>$  grade I) is used to determine that a patient is not receiving adequate treatment under the current treatment regimen. After increased or altered immunosuppressive therapy, diagnostic profiling is conducted to

determine whether continuing graft rejection is progressing. In yet another example, a diagnostic nucleotide set(s) that determine a patient's rejection status and diagnose cytomegalovirus infection is used to balance immunosuppressive and anti-viral therapy.

***Example 12: Identification of diagnostic nucleotide sets for kidney and liver allograft rejection***

Diagnostic tests for rejection are identified using patient leukocyte expression profiles to identify a molecular signature correlated with rejection of a transplanted kidney or liver. Blood, or other leukocyte source, samples are obtained from patients undergoing kidney or liver biopsy following liver or kidney transplantation, respectively. Such results reveal the histological grade, i.e., the state and severity of allograft rejection. Expression profiles are obtained from the samples as described above, and the expression profile is correlated with biopsy results. In the case of kidney rejection, clinical data is collected corresponding to urine output, level of creatine clearance, and level of serum creatine (and other markers of renal function). Clinical data collected for monitoring liver transplant rejection includes, biochemical characterization of serum markers of liver damage and function such as SGOT, SGPT, Alkaline phosphatase, GGT, Bilirubin, Albumin and Prothrombin time.

Leukocyte nucleotide sequence expression profiles are collected and correlated with important clinical states and outcomes in renal or hepatic transplantation. Examples of useful clinical correlates are given here:

1. Rejection episode of at least moderate histologic grade, which results in treatment of the patient with additional corticosteroids, anti-T cell antibodies, or total lymphoid irradiation.
2. The absence of histologic rejection and normal or unchanged allograft function (based on tests of renal or liver function listed above).
3. The presence of severe allograft dysfunction or worsening allograft dysfunction during the study period (based on tests of renal and hepatic function listed above).
4. Documented CMV infection by culture, histology, or PCR, and at least one clinical sign or symptom of infection.
5. Specific graft biopsy rejection grades
6. Rejection of mild to moderate histologic severity prompting augmentation of the patient's chronic immunosuppressive regimen
7. Infections other than CMV, esp. Epstein Barr virus (EBV)
8. Lymphoproliferative disorder (also called, post-transplant lymphoma)
9. Graft Failure or Retransplantation
10. Need for hemodialysis or other renal replacement therapy for renal transplant patients.

11. Hepatic encephalopathy for liver transplant recipients.
12. All cause mortality

Subsets of the candidate library (or of a previously identified diagnostic nucleotide set), are identified, according to the above procedures, that have predictive and/or diagnostic value for kidney or liver allograft rejection.

***Example 13: Identification of diagnostic nucleotide sequences sets for use in the diagnosis, prognosis, risk stratification, and treatment of Atherosclerosis, Stable Angina Pectoris, and acute coronary syndrome.***

Prediction of complications of atherosclerosis: angina pectoris.

Over 50 million in the US have atherosclerotic coronary artery disease (CAD). Almost all adults have some atherosclerosis. The most important question is who will develop complications of atherosclerosis. Patients with angiographically-confirmed atherosclerosis are enrolled in a study, and followed over time. Leukocyte expression profiles are taken at the beginning of the study, and routinely thereafter. Some patients develop angina and others do not. Expression profiles are correlated with development of angina, and subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures, that have predictive and/or diagnostic value for angina pectoris.

Alternatively, patients are followed by serial angiography. Profiles are collected at the first angiography, and at a repeat angiography at some future time (for example, after 1 year). Expression profiles are correlated with progression of disease, measured, for example, by decrease in vessel lumen diameter. Subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures, that have predictive and/or diagnostic value for progression of atherosclerosis.

Prediction and/or diagnosis of acute coronary syndrome

The main cause of death due to coronary atherosclerosis is the occurrence of acute coronary syndromes: myocardial infarction and unstable angina. Patients with at a very high risk of acute coronary syndrome (e.g., patients with a history of acute coronary syndrome, patients with atherosclerosis, patients with multiple traditional risk factors, clotting disorders or lupus) are enrolled in a prospective study. Leukocyte expression profiles are taken at the beginning of the study period and patients are monitored for the occurrence of unstable angina and/or myocardial

infarction. Standard criteria for the occurrence of an event are used (serum enzyme elevation, EKG, nuclear imaging or other), and the occurrence of these events can be collected from the patient, the patient's physician, the medical record or medical database. Expression profiles (taken at the beginning of the study) are correlated with the occurrence of an acute event. Subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures, that have predictive value for occurrence of an acute event.

In addition, expression profiles (taken at the time that an acute event occurs) are correlated with the occurrence of an acute event. Subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures, that have diagnostic value for occurrence of an acute event.

Risk stratification: occurrence of coronary artery disease

The established and classic risks for the occurrence of coronary artery disease and complications of that disease are: cigarette smoking, diabetes, hypertension, hyperlipidemia and a family history of early atherosclerosis. Obesity, sedentary lifestyle, syndrome X, cocaine use, chronic hemodialysis and renal disease, radiation exposure, endothelial dysfunction, elevated plasma homocysteine, elevated plasma lipoprotein a, and elevated CRP. Infection with CMV and chlamydia infection are less well established, controversial or putative risk factors for the disease. These risk factors can be assessed or measured in a population.

Leukocyte expression profiles are measured in a population possessing risk factors for the occurrence of coronary artery disease. Expression profiles are correlated with the presence of one or more risk factors (that may correlate with future development of disease and complications). Subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures, that have predictive value for the development of coronary artery disease.

Additional examples of useful correlation groups in cardiology include:

1. Samples from patients with a high risk factor burden (e.g., smoking, diabetes, high cholesterol, hypertension, family history) versus samples from those same patients at different times with fewer risks, or versus samples from different patients with fewer or different risks.

2. Samples from patients during an episode of unstable angina or myocardial infarction versus paired samples from those same patients before the episode or after recovery, or from different patients without these diagnoses.

3. Samples from patients (with or without documented atherosclerosis) who subsequently develop clinical manifestations of atherosclerosis such as stable angina, unstable angina, myocardial infarction, or stroke, versus samples from patients (with or without atherosclerosis) who do not develop these manifestations over the same time period.

4. Samples from patients who subsequently respond to a given medication or treatment regimen versus samples from those same or different patients who subsequently do not respond to a given medication or treatment regimen.

***Example 14: Identification of diagnostic nucleotide sets for use in diagnosing and treating Restenosis***

Restenosis is the re-narrowing of a coronary artery after an angioplasty. Patients are identified who are about to, or have recently undergone angioplasty. Leukocyte expression profiles are measured before the angioplasty, and at 1 day and 1-2 weeks after angioplasty or stent placement. Patients have a follow-up angiogram at 3 months and/or are followed for the occurrence of clinical restenosis, e.g., chest pain due to re-narrowing of the artery, that is confirmed by angiography. Expression profiles are compared between patients with and without restenosis, and candidate nucleotide profiles are correlated with the occurrence of restenosis. Subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures, that have predictive value for the development of restenosis.

***Example 15: Identification of diagnostic nucleotide sets for use in monitoring treatment and/or progression of Congestive Heart Failure***

CHF affects greater than 5 million individuals in the US and the prevalence of this disorder is growing as the population ages. The disease is chronic and debilitating. Medical expenditures are huge due to the costs of drug treatments, echocardiograms and other tests, frequent hospitalization and cardiac transplantation. The primary causes of CHF are coronary artery disease, hypertension and idiopathic

cardiomyopathy. Congestive heart failure is the number one indication for heart transplantation.

There is ample recent evidence that congestive heart failure is associated with systemic inflammation. A leukocyte test with the ability to determine the rate of progression and the adequacy of therapy is of great interest. Patients with severe CHF are identified, e.g. in a CHF clinic, an inpatient service, or a CHF study or registry (such as the cardiac transplant waiting list/registry). Expression profiles are taken at the beginning of the study and patients are followed over time, for example, over the course of one year, with serial assessments performed at least every three months. Further profiles are taken at clinically relevant end-points, for example: hospitalization for CHF, death, pulmonary edema, worsening of Ejection Fraction or increased cardiac chamber dimensions determined by echocardiography or another imaging test, and/or exercise testing of hemodynamic measurements. Clinical data is collected from patients if available, including:

Serial C-Reactive Protein (CRP), other serum markers, echocardiography (e.g., ejection fraction or another echocardiographic measure of cardiac function), nuclear imaging, NYHA functional classes, hospitalizations for CHF, quality of life measures, renal function, transplant listing, pulmonary edema, left ventricular assist device use, medication use and changes.

Expression profiles correlating with progression of CHF are identified. Expression profiles predicting disease progression, monitoring disease progression and response to treatment, and predicting response to a particular treatment(s) or class of treatment(s) are identified. Subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures, that have predictive value for the progression of CHF. Such diagnostic nucleotide sets are also useful for monitoring response to treatment for CHF.

***Example 16: Identification of diagnostic nucleotide sets for use in monitoring treatment and/or progression of Rheumatoid arthritis***

Rheumatoid arthritis (hereinafter, "RA") is a chronic and debilitating inflammatory arthritis. The diagnosis of RA is made by clinical criteria and radiographs. A new class of medication, TNF blockers, are effective, but the drugs are expensive, have side effects and not all patients respond to treatment. In addition, relief of disease symptoms does not always correlate with inhibition of joint

destruction. For these reasons, an alternative mechanism for the titration of therapy is needed.

An observational study was conducted in which a cohort of patients meeting American College of Rheumatology (hereinafter "ARC") criteria for the diagnosis of RA was identified. Arnett et al. (1988) Arthritis Rheum 31:315-24. Patients gave informed consent and a peripheral blood mononuclear cell RNA sample was obtained by the methods as described herein. When available, RNA samples were also obtained from surgical specimens of bone or synovium from effected joints, and synovial fluid .

From each patient, the following clinical information was obtained if available:

Demographic information; information relating to the ACR criteria for RA; presence or absence of additional diagnoses of inflammatory and non-inflammatory conditions; data from laboratory test, including complete blood counts with differentials, CRP, ESR, ANA, Serum IL6, Soluble CD40 ligand, LDL, HDL, Anti-DNA antibodies, rheumatoid factor, C3, C4, serum creatinine and any medication levels; data from surgical procedures such as gross operative findings and pathological evaluation of resected tissues and biopsies; information on pharmacological therapy and treatment changes; clinical diagnoses of disease "flare"; hospitalizations; quantitative joint exams; results from health assessment questionnaires (HAQs); other clinical measures of patient symptoms and disability; physical examination results and radiographic data assessing joint involvement, synovial thickening, bone loss and erosion and joint space narrowing and deformity.

From these data, measures of improvement in RA are derived as exemplified by the ACR 20% and 50% response/improvement rates (Felson et al. 1996). Measures of disease activity over some period of time is derived from these data as are measures of disease progression. Serial radiography of effected joints is used for objective determination of progression (e.g., joint space narrowing, peri-articular osteoporosis, synovial thickening). Disease activity is determined from the clinical scores, medical history, physical exam, lab studies, surgical and pathological findings. The collected clinical data (disease criteria) is used to define patient or sample groups for correlation of expression data. Patient groups are identified for comparison, for example, a patient group that possesses a useful or interesting clinical distinction, verses a patient group that does not possess the distinction. Examples of useful and



interesting patient distinctions that can be made on the basis of collected clinical data are listed here:

1. Samples from patients during a clinically diagnosed RA flare versus samples from these same or different patients while they are asymptomatic.
2. Samples from patients who subsequently have high measures of disease activity versus samples from those same or different patients who have low subsequent disease activity.
3. Samples from patients who subsequently have high measures of disease progression versus samples from those same or different patients who have low subsequent disease progression.
4. Samples from patients who subsequently respond to a given medication or treatment regimen versus samples from those same or different patients who subsequently do not respond to a given medication or treatment regimen (for example, TNF pathway blocking medications).
5. Samples from patients with a diagnosis of osteoarthritis versus patients with rheumatoid arthritis.
6. Samples from patients with tissue biopsy results showing a high degree of inflammation versus samples from patients with lesser degrees of histological evidence of inflammation on biopsy.

Expression profiles correlating with progression of RA are identified. Subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures, that have predictive value for the progression of RA.

Diagnostic nucleotide set(s) are identified which predict respond to TNF blockade. Patients are profiled before and during treatment with these medications. Patients are followed for relief of symptoms, side effects and progression of joint destruction, e.g., as measured by hand radiographs. Expression profiles correlating with response to TNF blockade are identified. Subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures that have predictive value for response to TNF blockade.

***Example 17: Identification of diagnostic nucleotide sets for diagnosis of Systemic Lupus Erythematosus***

SLE is a chronic, systemic inflammatory disease characterized by dysregulation of the immune system. Clinical manifestations affect every organ system and include skin rash, renal dysfunction, CNS disorders, arthralgias and hematologic abnormalities. SLE clinical manifestations tend to both recur intermittently (or “flare”) and progress over time, leading to permanent end-organ damage.

An observational study was conducted in which a cohort of patients meeting American College of Rheumatology (hereinafter “ACR”) criteria for the diagnosis of SLE were identified. See Tan et al. (1982) Arthritis Rheum 25:1271-7. Patients gave informed consent and a peripheral blood mononuclear cell RNA sample was obtained by the methods as described herein.

From each patient, the following clinical information was obtained if available:

Demographic information, ACR criteria for SLE, additional diagnoses of inflammatory and non-inflammatory conditions, data from laboratory testing including complete blood counts with differentials, CRP, ESR, ANA, Serum IL6, Soluble CD40 ligand, LDL, HDL, Anti-DNA antibodies, rheumatoid factor, C3, C4, serum creatinine (and other measures of renal dysfunction) and any medication levels, data from surgical procedures such as gross operative findings and pathological evaluation of resected tissues and biopsies (e.g., renal, CNS), information on pharmacological therapy and treatment changes, clinical diagnoses of disease “flare”, hospitalizations, quantitative joint exams, results from health assessment questionnaires (HAQs), SLEDAIs (a clinical score for SLE activity that assess many clinical variables), other clinical measures of patient symptoms and disability, physical examination results and carotid ultrasonography.

The collected clinical data (disease criteria) is used to define patient or sample groups for correlation of expression data. Patient groups are identified for comparison, for example, a patient group that possesses a useful or interesting clinical distinction, verses a patient group that does not possess the distinction. Measures of disease activity in SLE are derived from the clinical data described above to divide patients (and patient samples) into groups with higher and lower disease activity over some period of time or at any one point in time. Such data are SLEDAI scores and

other clinical scores, levels of inflammatory markers or complement, number of hospitalizations, medication use and changes, biopsy results and data measuring progression of end-organ damage or end-organ damage, including progressive renal failure, carotid atherosclerosis, and CNS dysfunction. Further examples of useful and interesting patient distinctions that can be made on the basis of collected clinical data are listed here:

Samples from patients during a clinically diagnosed SLE flare versus samples from these same or different patients while they are asymptomatic or while they have a documented infection.

1. Samples from patients who subsequently have high measures of disease activity versus samples from those same or different patients who have low subsequent disease activity.

2. Samples from patients who subsequently have high measures of disease progression versus samples from those same or different patients who have low subsequent disease progression.

3. Samples from patients who subsequently respond to a given medication or treatment regimen versus samples from those same or different patients who subsequently do not respond to a given medication or treatment regimen.

4. Samples from patients with premature carotid atherosclerosis on ultrasonography versus patients with SLE without premature atherosclerosis.

Expression profiles correlating with progression of SLE are identified, including expression profiles corresponding to end-organ damage and progression of end-organ damage. Expression profiles are identified predicting disease progression or disease "flare", response to treatment or likelihood of response to treatment, predict likelihood of "low" or "high" disease measures (optionally described using the SLEDAI score), and presence or likelihood of developing premature carotid atherosclerosis. Subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures, that have predictive value for the progression of SLE.

***Example 18: Identification of a diagnostic nucleotide set for diagnosis of cytomegalovirus***

Cytomegalovirus is a very important cause of disease in immunosuppressed patients, for example, transplant patients, cancer patients, and AIDS patients. The virus can cause inflammation and disease in almost any tissue (particularly the colon, lung, bone marrow and retina). It is increasingly important to identify patients with current or impending clinical CMV disease, particularly when immunosuppressive drugs are to be used in a patient, e.g. for preventing transplant rejection.

Leukocytes are profiled in patients with active CMV, impending CMV, or no CMV. Expression profiles correlating with diagnosis of active or impending CMV are identified. Subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures, that have predictive value for the diagnosis of active or impending CMV. Diagnostic nucleotide set(s) identified with predictive value for the diagnosis of active or impending CMV may be combined, or used in conjunction with, cardiac, liver and/or kidney allograft-related diagnostic gene set(s) (described in Examples 11 and 12).

In addition, or alternatively, CMV nucleotide sequences are obtained, and a diagnostic nucleotide set is designed using CMV nucleotide sequence. The entire sequence of the organism is known and all CMV nucleotide sequences can be isolated and added to the library using the sequence information and the approach described below. Known expressed genes are preferred. Alternatively, nucleotide sequences are selected to represent groups of CMV genes that are coordinately expressed (immediate early genes, early genes, and late genes) (Spector et al. 1990, Stamminger et al. 1990).

CMV nucleotide sequences were isolated as follows: Primers were designed to amplify known expressed CMV genes, based on the publically available sequence of CMV strain AD 169 (Genbank LOCUS: HEHCMVCG 229354 bp; DEFINITION Human cytomegalovirus strain AD169 complete genome; ACCESSION X17403; VERSION X17403.1 GI:59591). The following primer were used to PCR amplify nucleotide sequences from 175 ng of AD 169 viral genomic DNA (Advance Biotechnologies Incorporated) as a template:

CMV GENE	PRIMER SEQUENCES	SEQ. ID. NO:
UL21 5'	atgtggccgcttctgaaaaac	8771

UL21 3'	tcatggggtggggacgggg	8772
UL33 5'	gtacgcgctgctgggtcatg	8773
UL33 3'	tcataccccgctgagggtatg	8774
UL54 5'	cacggacgacgacgctgacg	8775
UL54 3'	gtacggcagaaaagccggctc	8776
UL55 5'	caccaaagacacgctcgttacg	8777
UL55 3'	tcagacgttctcttctcgtcg	8778
UL75 5'	cagcggcgctcaacattcac	8779
UL75 3'	tcagcatgtcttgagcatgcgg	8780
UL80 5'	cctccccaactactactaccg	8781
UL80 3'	ttactcgagcttattgagcgag	8782
UL83 5'	cacgtcgggcttatgacac	8783
UL83 3'	tcaacctcgggtcttttggg	8784
UL97 5'	ctgctcgtcattctggcgg	8785
UL97 3'	ttactcggggaacagttggcg	8786
UL106 5'	atgatgaccgaccgcacgga	8787
UL106 3'	tcacggtggctcgatacactg	8788
UL107 5'	aagcttccttacagcataactgt	8789
UL107 3'	ccttataacatgtatttgaaaattg	8790
UL109 5'	atgatacacgactaccactgg	8791
UL109 3'	ttacgagcaagagttcatcacg	8792
UL112 5'	ctgcgtgtcctcgctgggt	8793
UL112 3'	tcacgagtcactcggaagc	8794
UL113 5'	ctcgtcttctcggctccac	8795
UL113 3'	ttaatcgtcgaacacgcccgcg	8796
UL122 5'	gatgcttgaacgaaggcgtc	8797
UL122 3'	ttactgagactgttcctcagg	8798
UL123 5'	gtagcctacactttggccacc	8799
UL123 3'	ttactggtcagccttgctcta	8800
IRL2 5'	acgtccctggtagacggg	8801
IRL2 3'	ttataagaaaagaagcacaagctc	8802
IRL3 5'	atgtattgttttcttttttacagaaag	8803
IRL3 3'	ttatattattcaaaacgaaaaacag	8804
IRL4 5'	cttctccttctcctaatactcgg	8805
IRL4 3'	ctatacggagatcgcggtcc	8806
IRL5 5'	atgcatacacacgogtgcac	8807
IRL5 3'	ctaccatataaaaacgcagggg	8808
IRL7 5'	atgaaagcaagaggcagccg	8809
IRL7 3'	tcataaggtaacgatgctacttt	8810
IRL13 5'	atggactggcgatttacggtt	8811
IRL13 3'	ctacattgtgccatttctcagt	8812
US2 5'	atgaacaatctctggaagcctg	8813
US2 3'	tcagcacacgaaaaaccgcac	8814

US3 5'	atgaagccggtgttggtctc	8815
US3 3'	ttaaataaatcgagacgggcg	8816
US6 5'	atggatctcttgattcgtctcg	8817
US6 3'	tcaggagccacaacgtcgaatc	8818
US11 5'	cgcaaaacgctactggctcc	8819
US11 3'	tcaccactgggccgaaaacatc	8820
US18 5'	tacggctggtccgtcatcgt	8821
US18 3'	ttacaacaagctgaggagactc	8822
US27 5'	atgaccacctctacaataatcaaac	8823
US27 3'	glagaaacaagcgttgagtccc	8824
US28 5'	cgttcggtgtctcagtcg	8825
US28 3'	tcatgctgtggtaccaggata	8826

The PCR reaction conditions were 10 mM Tris pH 8.3, 3.5 mM MgCl<sub>2</sub>, 25 mM KCl, 200 uM dNTP's, 0.2 uM primers, and 5 Units of Taq Gold. The cycle parameters were as follows:

1. 95°C for 30 sec
2. 95°C for 15 sec
3. 56°C for 30 sec
4. 72°C for 2 min
5. go to step 2, 29 times
6. 72°C for 2 min
7. 4°C forever

PCR products were gel purified, and DNA was extracted from the agarose using the QiaexII gel purification kit (Qiagen). PCR product was ligated into the T/A cloning vector p-GEM-T-Easy (Promega) using 3 ul of gel purified PCR product and following the Promega protocol. The products of the ligation reaction were transformed and plated as described in the p-GEM protocol. White colonies were picked and grow culture in LB-AMP medium. Plasmid was prepared from these cultures using Qiagen Miniprep kit (Qiagen). Restriction enzyme digested plasmid (Not I and EcoRI) was examined after agarose gel electrophoresis to assess insert size. When the insert was the predicted size, the plasmid was sequenced by well-known techniques to confirm the identity of the CMV gene. Using forward and reverse primers that are complimentary to sequences flanking the insert cloning site (M13F and M13R), the isolated CMV gene was amplified and purified as described above.

Amplified cDNAs were used to create a microarray as described above. In addition, 50mer oligonucleotides corresponding the CMV genes listed above were designed, synthesized and placed on a microarray using methods described elsewhere in the specification.

Alternatively, oligonucleotide sequences are designed and synthesized for oligonucleotide array expression analysis from CMV genes as described in examples 20-22.

Diagnostic nucleotide set(s) for expression of CMV genes is used in combination with diagnostic leukocyte nucleotide sets for diagnosis of other conditions, e.g. organ allograft rejection.

***Example 19: Identification of diagnostic nucleotide sets for monitoring response to Statins***

HMG-CoA reductase inhibitors, called "Statins," are very effective in preventing complications of coronary artery disease in either patients with coronary disease and high cholesterol (secondary prevention) or patients without known coronary disease and with high cholesterol (primary prevention). Examples of Statins are (generic names given) pravastatin, atorvastatin, and simvastatin. Monitoring response to Statin therapy is of interest. Patients are identified who are on or are about to start Statin therapy. Leukocytes are profiled in patients before and after initiation of therapy, or in patients already being treated with Statins. Data is collected corresponding to cholesterol level, markers of inflammation (e.g., C-Reactive Protein and the Erythrocyte Sedimentation Rate), measures of endothelial function (e.g., improved forearm resistance or coronary flow reserve) and clinical endpoints (new stable angina, unstable angina, myocardial infarction, ventricular arrhythmia, claudication). Patient groups can be defined based on their response to Statin therapy (cholesterol, clinical endpoints, endothelial function). Expression profiles correlating with response to Statin treatment are identified. Subsets of the candidate library (or a previously identified diagnostic nucleotide set) are identified, according to the above procedures, that have predictive value for the response to Statins. Members of candidate nucleotide sets with expression that is altered by Statins are disease target nucleotides sequences.

***Example 20—Probe Selection for a 24,000 Feature Array***

This Example describes the compilation of almost 8,000 unique genes and ESTs using sequences identified from the sources described below. The sequences of these genes and ESTs were used to design probes, as described in the following Example.

Tables 3A, 3B and 3C list the sequences identified in the subtracted leukocyte expression libraries. All sequences that were identified as corresponding to a known RNA transcript were represented at least once, and all unidentified sequences were represented twice – once by the sequence on file and again by the complementary sequence – to ensure that the sense (or coding) strand of the gene sequence was included.

**Table 3A.** Table 3A contained all those sequences in BioCardia's subtracted libraries that matched sequences in GenBank's nr, EST\_Human, and UniGene databases with an acceptable level of confidence. All the entries in the table representing the sense strand of their genes were grouped together and all those representing the antisense strand were grouped. A third group contained those entries whose strand could not be determined. Two complementary probes were designed for each member of this third group.

**Table 3B and 3C.** Table 3B and 3C contained all those sequences in the leukocyte expression subtracted library that did not match sequences in GenBank's nr, EST\_Human, and UniGene databases with an acceptable level of confidence, but which had a high probability of representing real mRNA sequences. Sequences in Table 3B did not match anything in the databases above but matched regions of the human genome draft and were spatially clustered along it, suggesting that they were exons, rather than genomic DNA included in the library by chance. Sequences in Table 3C also aligned well to regions of the human genome draft, but the aligned regions were interrupted by genomic DNA, meaning they were likely to be spliced transcripts of multiple exon genes.

Table 3B lists 510 clones and Table 3C lists 48 clones that originally had no similarity with any sequence in the public databases. Blastn searches conducted after the initial filing have identified sequences in the public database with high similarity (E values less than  $1e-40$ ) to the sequences determined for these clones. Table 3B contained 272 clones and Table 3C contained 25 clones that were found to have high similarity to sequences in dbEST. The sequences of the similar dbEST clones were



used to design probes. Sequences from clones that contained no similar regions to any sequence in the database were used to design a pair of complementary probes.

Probes were designed from database sequences that had the highest similarity to each of the sequenced clones in Tables 3A, 3B, and 3C. Based on BLASTn searches the most similar database sequence was identified by locus number and the locus number was submitted to GenBank using batch Entrez (<http://www.ncbi.nlm.nih.gov/entrez/batchentrez.cgi?db=Nucleotide>) to obtain the sequence for that locus. The GenBank entry sequence was used because in most cases it was more complete or was derived from multi-pass sequencing and thus would likely have fewer errors than the single pass cDNA library sequences. When only UniGene cluster IDs were available for genes of interest, the respective sequences were extracted from the UniGene\_unique database, build 137, downloaded from NCBI (<ftp://ncbi.nlm.nih.gov/repository/UniGene/>). This database contains one representative sequence for each cluster in UniGene.

**Summary of BioCardia library clones used in probe design.**

<b>Table</b>	<b>Sense Strand</b>	<b>Antisense Strand</b>	<b>Strand Undetermined</b>
Table 3A	3621	763	124
Table 3B	142	130	238
Table 3C	19	6	23
<b>Totals</b>	<b>3782</b>	<b>899</b>	<b>385</b>

#### Literature Searches

Example 2 describes searches of literature databases. We also searched for research articles discussing genes expressed only in leukocytes or involved in inflammation and particular disease conditions, including genes that were specifically expressed or down-regulated in a disease state. Searches included, but were not limited to, the following terms and various combinations of these terms: inflammation, atherosclerosis, rheumatoid arthritis, osteoarthritis, lupus, SLE, allograft, transplant, rejection, leukocyte, monocyte, lymphocyte, mononuclear, macrophage, neutrophil, eosinophil, basophil, platelet, congestive heart failure, expression, profiling, microarray, inflammatory bowel disease, asthma, RNA expression, gene expression, granulocyte.

A UniGene cluster ID or GenBank accession number was found for each gene in the list. The strand of the corresponding sequence was determined, if possible, and the genes were divided into the three groups: sense (coding) strand, anti-sense strand, or strand unknown. The rest of the probe design process was carried out as described above for the sequences from the leukocyte subtracted expression library.

#### Database Mining

Database mining was performed as described in Example 2. In addition, the Library Browser at the NCBI UniGene web site (<http://www.ncbi.nlm.nih.gov/UniGene/lbrowse.cgi?ORG=Hs&DISPLAY=ALL>) was used to identify genes that are specifically expressed in leukocyte cell populations. All expression libraries available at the time were examined and those derived from leukocytes were viewed individually. Each library viewed through the Library Browser at the UniGene web site contains a section titled "Shown below are UniGene clusters of special interest only" that lists genes that are either highly represented or found only in that library. Only the genes in this section were downloaded from each library. Alternatively, every sequence in each library is downloaded and then redundancy between libraries is reduced by discarding all UniGene cluster IDs that are represented more than once.

A total of 439 libraries were downloaded, containing 35,819 genes, although many were found in more than one library. The most important libraries from the remaining set were separated and 3,914 genes remained. After eliminating all redundancy between these libraries and comparing the remaining genes to those listed in Tables 3A, 3B and 3C, the set was reduced to 2,573 genes in 35 libraries (listed below). From these, all genes in first 30 libraries were used to design probes. A random subset of genes was used from Library Lib.376, "Activated\_T-cells\_XX". From the last four libraries, a random subset of sequences listed as "ESTs, found only in this library" was used.

Library			No. of sequences before reduction	No. of sequences used on array*
ID	Library Name	Category		
Lib.2228	Human_leukocyte_MATCHMAKER_cDNA_Library	other/unclassified	4	3

Lib.238	RA-MO-III (activated monocytes from RA patient)	Blood	2	1
Lib.242	Human_peripheral_blood_(Whole)_(Steve_Elledge)	Blood	4	2
Lib.2439	Subtracted_cDNA_libraries_from_human_Jurkat_cells	other/unclassified	4	1
Lib.323	Activated_T-cells_I	other/unclassified	19	3
Lib.327	Monocytes_stimulated_II	Blood	92	35
Lib.387	Macrophage_I	other/unclassified	84	24
Lib.409	Activated_T-cells_IV	other/unclassified	37	10
Lib.410	Activated_T-cells_VIII	other/unclassified	27	10
Lib.411	Activated_T-cells_V	other/unclassified	41	9
Lib.412	Activated_T-cells_XII	other/unclassified	29	12
Lib.413	Activated_T-cells_XI	other/unclassified	13	6
Lib.414	Activated_T-cells_II	other/unclassified	69	30
Lib.429	Macrophage_II	other/unclassified	56	24
Lib.4480	Homo_sapiens_rheumatoid_arthritis_fibroblast-like_synovial	other/unclassified	7	6
Lib.476	Macrophage_subtracted_(total_cDNA)	other/unclassified	11	1
Lib.490	Activated_T-cells_III	other/unclassified	9	5
Lib.491	Activated_T-cells_VII	other/unclassified	27	8
Lib.492	Activated_T-cells_IX	other/unclassified	16	5
Lib.493	Activated_T-cells_VI	other/unclassified	31	15
Lib.494	Activated_T-cells_X	other/unclassified	18	5
Lib.498	RA-MO-I (activated peripheral blood monocytes from RA patient)	Blood	2	1
Lib.5009	Homo_Sapiens_cDNA_Library_from_Peripheral_White_Blood_Cell	other/unclassified	3	3
Lib.6338	human_activated_B_lymphocyte	Tonsils	9	8
Lib.6342	Human_lymphocytes	other/unclassified	2	2
Lib.646	Human_leukocyte_(M.L.Markelov)	other/unclassified	1	1
Lib.689	Subtracted_cDNA_library_of_activated_B_lymphocyte	Tonsil	1	1
Lib.773	PMA-induced_HL60_cell_subtraction_library_(leukemia)	other/unclassified	6	3
Lib.1367	cDNA_Library_from_rIL-2_activated_lymphocytes	other/unclassified	3	2
Lib.5018	Homo_sapiens_CD4+_T-cell_clone_HA1.7	other/unclassified	6	3
Lib.376	Activated_T-cells_XX	other/unclassified	999	119
Lib.669	NCI_CGAP_CLL1 (Lymphocyte)	Blood	353	81†
Lib.1395	NCI_CGAP_Sub6 (germinal center b-cells)	B cells germinal	389	100†
Lib.2217	NCI_CGAP_Sub7 (germinal center b-cells)	B cells germinal	605	200†
Lib.289	NCI_CGAP_GCB1 (germinal center b-cells)	Tonsil	935	200†
<b>Total</b>			<b>3,914</b>	<b>939</b>

\* Redundancy of UniGene numbers between the libraries was eliminated.

† A subset of genes flagged as "Found only in this library" were taken.

Angiogenesis Markers

215 sequences derived from an angiogenic endothelial cell subtracted cDNA library obtained from Stanford University were used for probe design. Briefly, using well known subtractive hybridization procedures, (as described in, e.g., US Patent Numbers 5,958,738; 5,589,339; 5,827,658; 5,712,127; 5,643,761; 5,565,340) modified to normalize expression by suppressing over-representation of abundant RNA species while increasing representation of rare RNA species, a library was produced that is enriched for RNA species (messages) that are differentially expressed between test (stimulated) and control (resting) HUVEC populations. The subtraction/suppression protocol was performed as described by the kit manufacturer (Clontech, PCR-select cDNA Subtraction Kit).

Pooled primary HUVECs (Clonetics) were cultured in 15% FCS, M199 (GibcoBRL) with standard concentrations of Heparin, Penicillin, Streptomycin, Glutamine and Endothelial Cell Growth Supplement. The cells were cultured on 1% gelatin coated 10 cm dishes. Confluent HUVECs were photographed under phase contrast microscopy. The cells formed a monolayer of flat cells without gaps. Passage 2-5 cells were used for all experiments. Confluent HUVECs were treated with trypsin/EDTA and seeded onto collagen gels. Collagen gels were made according to the protocol of the Collagen manufacturer (Becton Dickinson Labware). Collagen gels were prepared with the following ingredients: Rat tail collagen type I (Collaborative Biomedical) 1.5 mg/mL, mouse laminin (Collaborative Biomedical) 0.5 mg/mL, 10% 10X media 199 (Gibco BRL). 1N NaOH, 10 X PBS and sterile water were added in amounts recommended in the protocol. Cell density was measured by microscopy.  $1.2 \times 10^6$  cells were seeded onto gels in 6-well, 35 mm dishes, in 5% FCS M199 media. The cells were incubated for 2 hrs at 37 C with 5% CO<sub>2</sub>. The media was then changed to the same media with the addition of VEGF (Sigma) at 30ng/mL media. Cells were cultured for 36 hrs. At 12, 24 and 36 hrs, the cells were observed with phase contrast microscopy. At 36 hours, the cells were observed elongating, adhering to each other and forming lumen structures. At 12 and 24 hrs media was aspirated and refreshed. At 36 hrs, the media was aspirated, the cells were rinsed with PBS and then treated with Collagenase (Sigma) 2.5mg/mL PBS for 5 min with active agitation until the collagen gels were liquefied. The cells were then centrifuged at 4C, 2000g for 10 min. The supernatant was removed and the cells

were lysed with 1 mL Trizol Reagent (Gibco) per  $5 \times 10^6$  cells. Total RNA was prepared as specified in the Trizol instructions for use. mRNA was then isolated as described in the micro-fast track mRNA isolation protocol from Invitrogen. This RNA was used as the tester RNA for the subtraction procedure.

Ten plates of resting, confluent, p4 HUVECs, were cultured with 15 % FCS in the M199 media described above. The media was aspirated and the cells were lysed with 1 mL Trizol and total RNA was prepared according to the Trizol protocol. mRNA was then isolated according to the micro-fast track mRNA isolation protocol from Invitrogen. This RNA served as the control RNA for the subtraction procedure.

The entire subtraction cloning procedure was carried out as per the user manual for the Clontech PCR Select Subtraction Kit. The cDNAs prepared from the test population of HUVECs were divided into "tester" pools, while cDNAs prepared from the control population of HUVECs were designated the "driver" pool. cDNA was synthesized from the tester and control RNA samples described above. Resulting cDNAs were digested with the restriction enzyme RsaI. Unique double-stranded adapters were ligated to the tester cDNA. An initial hybridization was performed consisting of the tester pools of cDNA (with its corresponding adapter) and an excess of the driver cDNA. The initial hybridization results in a partial normalization of the cDNAs such that high and low abundance messages become more equally represented following hybridization due to a failure of driver/tester hybrids to amplify.

A second hybridization involved pooling unhybridized sequences from the first hybridization together with the addition of supplemental driver cDNA. In this step, the expressed sequences enriched in the two tester pools following the initial hybridization can hybridize. Hybrids resulting from the hybridization between members of each of the two tester pools are then recovered by amplification in a polymerase chain reaction (PCR) using primers specific for the unique adapters. Again, sequences originating in a tester pool that form hybrids with components of the driver pool are not amplified. Hybrids resulting between members of the same tester pool are eliminated by the formation of "panhandles" between their common 5' and 3' ends. This process is illustrated schematically in Figure 3. The subtraction was done in both directions, producing two libraries, one with clones that are upregulated in tube-formation and one with clones that are down-regulated in the process.

The resulting PCR products representing partial cDNAs of differentially expressed genes were then cloned (i.e., ligated) into an appropriate vector according to the manufacturer's protocol (pGEM-Teasy from Promega) and transformed into competent bacteria for selection and screening. Colonies (2180) were picked and cultured in LB broth with 50ug/mL ampicillin at 37C overnight. Stocks of saturated LB + 50 ug/mL ampicillin and 15% glycerol in 96-well plates were stored at -80C. Plasmid was prepared from 1.4mL saturated LB broth containing 50 ug/mL ampicillin. This was done in a 96 well format using commercially available kits according to the manufacturer's recommendations (Qiagen 96-turbo prep).

2 probes to represent 22 of these sequences required, therefore, a total of 237 probes were derived from this library.

Viral genes.

Several viruses may play a role in a host of disease including inflammatory disorders, atherosclerosis, and transplant rejection. The table below lists the viral genes represented by oligonucleotide probes on the microarray. Low-complexity regions in the sequences were masked using RepeatMasker before using them to design probes.

Virus	Gene Name	Genome Location
<b>Adenovirus, type 2</b> Accession #J01917	E1a	1226..1542
	E1b_1	3270...3503
	E2a_2	complement(24089..25885)
	E3-1	27609..29792
	E4 (last exon at 3'-end)	complement(33193..32802)
	IX	3576..4034
	Iva2	complement(4081..5417)
	DNA Polymerase	complement(5187..5418)
<b>Cytomegalovirus (CMV)</b> Accession #X17403	HCMVTRL2 (IRL2)	1893..2240
	HCMVTRL7 (IRL7)	complement(6595..6843)
	HCMVUL21	complement(26497..27024)
	HCMVUL27	complement(32831..34657)
	HCMVUL33	43251..44423
	HCMVUL54	complement(76903..80631)
	HCMVUL75	complement(107901..110132)
	HCMVUL83	complement(119352..121037)
	HCMVUL106	complement(154947..155324)
	HCMVUL109	complement(157514..157810)
	HCMVUL113	161503..162800
	HCMVUL122	complement(169364..170599)
	HCMVUL123 (last exon at 3'-end)	complement(171006..172225)
	HCMVUS28	219200..220171
<b>Epstein-Barr virus (EBV)</b> Accession # NC_001345	Exon in EBNA-1 RNA	67477..67649
	Exon in EBNA-1 RNA	98364..98730
	BRLF1	complement(103366..105183)
	BZLF1 (first of 3 exons)	complement(102655..103155)
	BMLF1	complement(82743..84059)
	BALF2	complement(161384..164770)
<b>Human Herpesvirus 6 (HHV6)</b> Accession #NC_001664	U16/U17	complement(26259..27349)
	U89	complement(133091..135610)
	U90	complement(135664..135948)
	U86	complement(125989..128136)
	U83	123528..123821
	U22	complement(33739..34347)
	DR2 (DR2L)	791..2653
	DR7 (DR7L)	5629..6720
	U95	142941..146306
	U94	complement(141394..142866)
	U39	complement(59588..62080)
	U42	complement(69054..70598)
	U81	complement(121810..122577)



### Strand Selection

It was necessary to design sense oligonucleotide probes because the labeling and hybridization protocol to be used with the microarray results in fluorescently-labeled antisense cRNA. All of the sequences we selected to design probes could be divided into three categories:

- (1) Sequences known to represent the sense strand
- (2) Sequences known to represent the antisense strand
- (3) Sequences whose strand could not be easily determined from their descriptions

It was not known whether the sequences from the leukocyte subtracted expression library were from the sense or antisense strand. GenBank sequences are reported with sequence given 5' to 3', and the majority of the sequences we used to design probes came from accession numbers with descriptions that made it clear whether they represented sense or antisense sequence. For example, all sequences containing "mRNA" in their descriptions were understood to be the sequences of the sense mRNA, unless otherwise noted in the description, and all IMAGE Consortium clones are directionally cloned and so the direction (or sense) of the reported sequence can be determined from the annotation in the GenBank record.

For accession numbers representing the sense strand, the sequence was downloaded and masked and a probe was designed directly from the sequence. These probes were selected as close to the 3' end as possible. For accession numbers representing the antisense strand, the sequence was downloaded and masked, and a probe was designed complementary to this sequence. These probes were designed as close to the 5' end as possible (i.e., complementary to the 3' end of the sense strand).

### Minimizing Probe Redundancy.

Multiple copies of certain genes or segments of genes were included in the sequences from each category described above, either by accident or by design. Reducing redundancy within each of the gene sets was necessary to maximize the number of unique genes and ESTs that could be represented on the microarray.

Three methods were used to reduce redundancy of genes, depending on what information was available. First, in gene sets with multiple occurrences of one or more

UniGene numbers, only one occurrence of each UniGene number was kept. Next, each gene set was searched by GenBank accession numbers and only one occurrence of each accession number was conserved. Finally, the gene name, description, or gene symbol were searched for redundant genes with no UniGene number or different accession numbers. In reducing the redundancy of the gene sets, every effort was made to conserve the most information about each gene.

We note, however, that the UniGene system for clustering submissions to GenBank is frequently updated and UniGene cluster IDs can change. Two or more clusters may be combined under a new cluster ID or a cluster may be split into several new clusters and the original cluster ID retired. Since the lists of genes in each of the gene sets discussed were assembled at different times, the same sequence may appear in several different sets with a different UniGene ID in each.

Sequences from Table 3A were treated differently. In some cases, two or more of the leukocyte subtracted expression library sequences aligned to different regions of the same GenBank entry, indicating that these sequences were likely to be from different exons in the same gene transcript. In these cases, one representative library sequence corresponding to each presumptive exon was individually listed in Table 3A.

### Compilation.

After redundancy within a gene set was sufficiently reduced, a table of approximately 8,000 unique genes and ESTs was compiled in the following manner. All of the entries in Table 3A were transferred to the new table. The list of genes produced by literature and database searches was added, eliminating any genes already contained in Table 3A. Next, each of the remaining sets of genes was compared to the table and any genes already contained in the table were deleted from the gene sets before appending them to the table.

	<u>Probes</u>
BioCardia Subtracted Leukocyte Expression Library	
Table 3A	4,872
Table 3B	796
Table 3C	85
Literature Search Results	494

Database Mining	1,607
Viral genes	
a. CMV	14
b. EBV	6
c. HHV 6	14
d. Adenovirus	8
Angiogenesis markers: 215, 22 of which needed two probes	237
<i>Arabidopsis thaliana</i> genes	10
Total sequences used to design probes	8,143

#### ***Example 21- Design of oligonucleotide probes***

This section describes the design of four oligonucleotide probes using Array Designer Ver 1.1 (Premier Biosoft International, Palo Alto, CA).

##### **Clone 40H12**

Clone 40H12 was sequenced and compared to the nr, dbEST, and UniGene databases at NCBI using the BLAST search tool. The sequence matched accession number NM\_002310, a 'curated RefSeq project' sequence, see Pruitt et al. (2000) Trends Genet. 16:44-47, encoding leukemia inhibitory factor receptor (LIFR) mRNA with a reported E value of zero. An E value of zero indicates there is, for all practical purposes, no chance that the similarity was random based on the length of the sequence and the composition and size of the database. This sequence, cataloged by accession number NM\_002310, is much longer than the sequence of clone 40H12 and has a poly-A tail. This indicated that the sequence cataloged by accession number NM\_002310 is the sense strand and a more complete representation of the mRNA than the sequence of clone 40H12, especially at the 3' end. Accession number "NM\_002310" was included in a text file of accession numbers representing sense strand mRNAs, and sequences for the sense strand mRNAs were obtained by uploading a text file containing desired accession numbers as an Entrez search query using the Batch Entrez web interface and saving the results locally as a FASTA file. The following sequence was obtained, and the region of alignment of clone 40H12 is outlined:

CTCTCTCCCAGAACGTGTCTCTGCTGCAAGGCACCGGGCCCTTTTCGCTCTGCAGAACTGC  
ACTTGCAAGACCATTTATCAACTCCTAATCCCAGCTCAGAAAGGGAGCCTCTGCGACTCAT  
TCATCGCCCTCCAGGACTGACTGCATTGCACAGATGATGGATATTTACGTATGTTTGAAA  
CGACCATCCTGGATGGTGGACAATAAAAGAATGAGGACTGCTTCAAATTTCCAGTGGCTG  
TTATCAACATTTTATTCTTCTATATCTAATGAATCAAGTAAATAGCCAGAAAAAGGGGGCT  
CCTCATGATTTGAAGTGTGTAACATAAATTTGCAAGTGTGGAAGTGTCTTGGAAAGCA  
CCCTCTGGAACAGGCCGTGGTACTGATTATGAAGTTTGCATTGAAAACAGGTCCCGTTCT  
TGTTATCAGTTGGAGAAAACCAGTATTAAAAATCCAGCTCTTTCACATGGTGATTATGAA  
ATAACAATAAATTTCTCTACATGATTTTGGAAAGTTCTACAAGTAAATTCACACTAAATGAA  
CAAAACGTTTCTTAATTCAGATACTCCAGAGATCTTGAATTTGTCTGCTGATTTCTCA  
ACCTCTACATTATACCTAAAGTGGAACGACAGGGGTTTCAGTTTTTCCACACCGCTCAAAT  
GTTATCTGGGAAATTAAAGTTCTACGTAAAGAGAGTATGGAGCTCGTAAAATTAGTGACC  
CACAACACAACCTCTGAATGGCAAAGATACACTTCATCACTGGAGTTGGGCCTCAGATATG  
CCCTTGGAATGTGCCATTCATTTTGTGGAAATTAGATGCTACATTGACAATCTTCATTTT  
TCTGGTCTCGAAGAGTGGAGTGAAGTGGAGCCCTGTGAAGAACATTTCTTGGATACCTGAT  
TCTCAGACTAAGGTTTTTCTCAAGATAAAGTGATACTTGTAGGCTCAGACATAACATTT  
TGTTGTGTGAGTCAAGAAAAAGTGTTATCAGCACTGATTGGCCATACAAACTGCCCCCTTG  
ATCCATCTTGATGGGGAAAAATGTTGCAATCAAGATTCGTAATATTTCTGTTTCTGCAAGT  
AGTGGAACAAATGTAGTTTTTACAACCGAAGATAACATATTTGGAACCGTTATTTTTGCT  
GGATATCCACCAGATACTCCTCAACAACCTGAATTGTGAGACACATGATTTAAAGAAATT  
ATATGTAGTTGGAATCCAGGAAGGGTGACAGCGTTGGTGGGGCCACGTGCTACAAGCTAC  
ACTTTAGTTGAAAGTTTTTTCAGGAAAATATGTTAGACTTAAAAGAGCTGAAGCACCTACA  
AACGAAAGCTATCAATTATTATTTCAAATGCTTCCAAATCAAGAAATATATAATTTTACT  
TTGAATGCTCACAATCCGCTGGGTGATCACAATCAACAATTTTAGTTAATATAACTGAA  
AAAGTTTATCCCCATACTCCTACTTCATTCAAAGTGAAGGATATTAATTCAACAGCTGTT  
AACTTTCTTGGCATTTTACCAGGCAACTTTGCAAAGATTAATTTTTTATGTGAAATTGAA  
ATTAAGAAATCTAATTCAGTACAAGAGCAGCGGAATGTCACAATCAAAGGAGTAGAAAAT  
TCAAGTTATCTTGTGCTCTGGACAAGTTAAATCCATACACTCTATATACTTTTCGGATT  
CGTTGTTCTACTGAACTTTCTGGAAATGGAGCAAATGGAGCAATAAAAAACAACATTTA  
ACAACAGAAGCCAGTCCTTCAAAGGGGCTGATACTTGGAGAGAGTGGAGTTCTGATGGA  
AAAAATTTAATAATCTATTGGAAGCCTTTACCCATTAATGAAGCTAATGGAAAAATACTT

TCCTACAATGTATCGTGTTTCATCAGATGAGGAAACACAGTCCCTTTCTGAAATCCCTGAT  
CCTCAGCACAAAGCAGAGATACGACTTGATAAGAATGACTACATCATCAGCGTAGTGGCT  
AAAAATTCTGTGGGCTCATCACCACCTTCCAAAATAGCGAGTATGGAAATTCCAAATGAT  
GATCTCAAAATAGAACAAGTTGTTGGGATGGGAAAGGGGATTCTCCTCACCTGGCATTAC  
GACCCCAACATGACTTGCGACTACGTCATTAAGTGGTGTAACCTCGTCTCGGTCCGAACCA  
TGCCTTATGGACTGGAGAAAAGTTCCCTCAAACAGCACTGAAACTGTAATAGAATCTGAT  
GAGTTTCGACCAGGTATAAGATATAATTTTTTCTGTATGGATGCAGAAATCAAGGATAT  
CAATTATTACGCTCCATGATTGGATATATAGAAGAATTGGCTCCCATTTGTTGCACCAAAT  
TTTACTGTTGAGGATACTTCTGCAGATTCGATATTAGTAAAATGGGAAGACATTCCTGTG  
GAAGAACTTAGAGGCTTTTTAAGAGGATATTTGTTTTACTTTGGAAAAGGAGAAAGAGAC  
ACATCTAAGATGAGGGTTTTAGAATCAGGTCGTTCTGACATAAAAGTTAAGAATATTACT  
GACATATCCAGAAGACACTGAGAATTGCTGATCTTCAAGGTAAAACAAGTTACCACCTG  
GTCTTGCGAGCCTATACAGATGGTGGAGTGGGCCCGGAGAAGAGTATGTATGTGGTGACA  
AAGGAAAATTCTGTGGGATTAATTATTGCCATTCTCATCCCAGTGGCAGTGGCTGTCATT  
GTTGGAGTGGTGACAAGTATCCTTTTGCTATCGGAAACGAGAATGGATTAAAGAAACCTTC  
TACCCTGATATTCCAAATCCAGAAAAGTGTAAAGCATTACAGTTTCAAAGAGTGTCTGT  
GAGGGAAGCAGTGCTCTTAAACATTGGAAATGAATCCTTGTAACCCCAAATAATGTTGAG  
GTTCTGGAAACTCGATCAGCATTTCTTAAATAGAAGATACAGAAATAATTTCCCCAGTA  
GCTGAGCGTCTGAAGATCGCTCTGATGCAGAGCCTGAAAACCATGTGGTTGTGTCTAT  
TGTCCACCCATCATTGAGGAAGAAATACCAAACCCAGCCGCAGATGAAGCTGGAGGGACT  
GCACAGGTTATTTACATTGATGTTTCAGTCGATGTATCAGCCTCAAGCAAAACCAGAAGAA  
GAACAAGAAAATGACCCTGTAGGAGGGGAGGCTATAAGCCACAGATGCACCTCCCCATT  
AATTCTACTGTGGAAGATATAGCTGCAGAAGAGGACTTAGATAAAACTGCGGGTTACAGA  
CCTCAGGCCAATGTAAATACATGGAATTTAGTGTCTCCAGACTCTCCTAGATCCATAGAC  
AGCAACAGTGAGATTGTCTCATTTGGAAGTCCATGCTCCATTAATCCCGACAATTTTTG  
ATTCCTCCTAAAGATGAAGACTCTCCTAAATCTAATGGAGGAGGGTGGTCCTTTACAAAC  
TTTTTTCAGAACAAACCAAACGATTAACAGTGTACCGTGTCACTTCAGTCAGCCATCTC  
AATAAGCTCTTACTGCTAGTGTGCTACATCAGCACTGGGCATTCTTGGAGGGATCCTGT  
GAAGTATTGTTAGGAGGTGAACCTTCACTACATGTTAAGTTACACTGAAAGTTTCATGTGCT  
TTAATGTAGTCTAAAAGCCAAAGTATAGTGAATCAGAAATCCTCAATCCACAAAACCTCAA  
GATTGGGAGCTCTTTGTGATCAAGCCAAAGAATTCTCATGTACTCTACCTTCAAGAAGCA  
TTTCAAGGCTAATACCTACTTGTACGTACATGTAAACAAATCCCGCCGCAACTGTTTTTC

TGTCTGTTGTTTGTGGTTTTCTCATATGTATACTTGGTGGAATTGTAAGTGGATTGCA  
 GGCCAGGGAGAAAATGTCCAAGTAACAGGTGAAGTTTATTTGCCTGACGTTTACTCCTTT  
 CTAGATGAAAACCAAGCACAGATTTTAAACTTCTAAGATTATTCTCCTCTATCCACAGC  
 ATTCACAAAAATTAATATAATTTTAAATGTAGTGACAGCGATTTAGTGTTTTGTTTGATA  
 AAGTATGCTTATTTCTGTGCCTACTGTATAATGGTTATCAAACAGTTGTCTCAGGGGTAC  
 AAACTTTGAAAACAAGTGTGACACTGACCAGCCCAAATCATAATCATGTTTTCTTGCTGT  
 GATAGGTTTTGCTTGCCTTTTCATTATTTTTTAGCTTTTATGCTTGCTTCCATTATTTCA  
 GTTGGTTGCCCTAATATTTAAATTTACACTTCTAAGACTAGAGACCCACATTTTTTAA  
 AATCATTTTTATTTTGTGATACAGTGACAGCTTTATATGAGCAAATTCATATTATTCATA  
 AGCATGTAATTCAGTGACTTACTATGTGAGATGACTACTAAGCAATATCTAGCAGCGTT  
 AGTTCCATATAGTTCTGATTGGATTTTCGTTCCCTCCTGAGGAGACCATGCCGTTGAGCTTG  
 GCTACCCAGGCAGTGGTGATCTTTGACACCTTCTGGTGGATGTTCTCCTCCCACTCATGAGT  
 CTTTTCATCATGCCACATTATCTGATCCAGTCCTCACATTTTTTAAATATAAACTAAAGA  
 GAGAATGCTTCTTACAGGAACAGTTACCCAAGGGCTGTTTCTTAGTAACTGTCATAAACT  
 GATCTGGATCCATGGGCATACCTGTGTTTCGAGGTGCAGCAATTGCTTGGTGAGCTGTGCA  
 GAATTGATTGCCTTCAGCACAGCATCCTCTGCCCACCCTTGTTTCTCATAAGCGATGTCT  
 GGAGTGATTGTGGTTCTTGAAAAGCAGAAGGAAAACTAAAAAGTGTATCTTGTATTTT  
 CCTGCTCAGGTTGCCTATGTATTTTACCTTTTCATATTTAAGGCAAAAGTACTTGAA  
 AATTTTAAAGTGTCGAATAAGATATGTCTTTTTTGTGTTTGTGTTTGGTTGGTTGTTTG  
 TTTTTTATCATCTGAGATTCTGTAATGTATTTGCAAATAATGGATCAATTAATTTTTTTT  
 GAAGCTCATATTGTATCTTTTTTAAAACCATGTTGTGGAAAAAGCCAGAGTGACAAGTG  
 ACAAATCTATTTAGGAACTCTGTGTATGAATCCTGATTTTAACTGCTAGGATTCAGCTA  
 AATTTCTGAGCTTTATGATCTGTGGAAATTTGGAATGAAATCGAATTCATTTTGTACATA  
 CATAGTATATTAAACTATATAATAGTTCATAGAAATGTTTCAGTAATGAAAAATATATC  
 CAATCAGAGCCATCCCGAAAAA (SEQ ID No.: 8827)

The FASTA file, including the sequence of NM\_002310, was masked using the RepeatMasker web interface (Smit, AFA & Green, P RepeatMasker at <http://ftp.genome.washington.edu/RM/RepeatMasker.html>, Smit and Green). Specifically, during masking, the following types of sequences were replaced with "N's": SINE/MIR & LINE/L2, LINE/L1, LTR/MaLR, LTR/Retroviral, Alu, and other low

informational content sequences such as simple repeats. Below is the sequence following masking:

CTCTCTCCCAGAACGTGTCTCTGCTGCAAGGCACCGGGCCCTTTCGCTCTGCAGAACTG  
CACTTGCAAGACCATTATCAACTCCTAATCCCAGCTCAGAAAGGGAGCCTCTGCGACTC  
ATTCATCGCCCTCCAGGACTGACTGCATTGCACAGATGATGGATATTTACGTATGTTTG  
AAACGACCATCCTGGATGGTGGACAATAAAAGAATGAGGACTGCTTCAAATTTCCAGTG  
GCTGTTATCAACATTTATTCTTCTATATCTAATGAATCAAGTAAATAGCCAGAAAAAGG  
GGGCTCCTCATGATTTGAAGTGTGTAACATAACAATTTGCAAGTGTGGAACGTGTTCTTGG  
AAAGCACCCCTCTGGAACAGGCCGTGGTACTGATTATGAAGTTTGCATTGAAAACAGGTC  
CCGTTCTTGTTATCAGTTGGAGAAAACCAGTATTAAATTTCCAGCTCTTTCACATGGTG  
ATTATGAAATAACAATAAATTCTCTACATGATTTTGGAAGTTCTACAAGTAAATTCACA  
CTAAATGAACAAAACGTTTCCTTAATTTCCAGATACTCCAGAGATCTTGAATTTGTCTGC  
TGATTTCTCAACCTCTACATTATACCTAAAGTGGAACGACAGGGGTTTCAAGTTTTCCAC  
ACCGCTCAAATGTTATCTGGGAAATTAAGTTCTACGTAAAGAGAGTATGGAGCTCGTA  
AAATTAGTGACCCACAACACAACCTCTGAATGGCAAAGATACACTTCATCACTGGAGTTG  
GGCCTCAGATATGCCCTTGGAATGTGCCATTCAATTTGTGGAATTAGATGCTACATTG  
ACAATCTTCATTTTTCTGGTCTCGAAGAGTGGAGTGACTGGAGCCCTGTGAAGAACATT  
TCTTGATACCTGATTCTCAGACTAAGGTTTTCTCAAGATAAAGTGATACTTGTAGG  
CTCAGACATAACATTTTGTGTGTGAGTCAAGAAAAAGTGTATCAGCACTGATTGGCC  
ATACAACTGCCCCCTTGATCCATCTTGATGGGGAAAATGTTGCAATCAAGATTTCGTAAT  
ATTTCTGTTTCTGCAAGTAGTGGAACAAATGTAGTTTTTACAACCGAAGATAACATATT  
TGGAACCGTTATTTTTGCTGGATATCCACCAGATACTCCTCAACAACCTGAATTGTGAGA  
CACATGATTTAAAAGAAATTATATGTAGTTGGAATCCAGGAAGGGTGACAGCGTTGGTG  
GGCCACGTGCTACAAGCTACACTTTAGTTGAAAGTTTTTCAGGAAAATATGTTAGACT  
TAAAAGAGCTGAAGCACCTACAAACGAAAGCTATCAATTATTATTTCAAATGCTTCCAA  
ATCAAGAAATATATAATTTTACTTTGAATGCTCACAATCCGCTGGGTCGATCACAATCA  
ACAATTTTAGTTAATATAACTGAAAAAGTTTATCCCCATACTCCTACTTCATTCAAAGT  
GAAGGATATTAATTCACAGCTGTAAACTTTCTTGGCATTTACCAGGCAACTTTGCAA  
AGATTAATTTTTTATGTGAAATTGAAATTAAGAAATCTAATTCAGTACAAGAGCAGCGG  
AATGTCACAATCAAAGGAGTAGAAAATTCAAGTTATCTTGTTGCTCTGGACAAGTTAAA  
TCCATACACTCTATATACTTTTCGGATTTCGTTGTTCTACTGAACTTTCTGGAAATGGA

GCAAAATGGAGCAATAAAAAACAACATTTAACAACAGAAGCCAGTCCTTCAAAGGGGCCT  
GATACTTGGAGAGAGTGGAGTTCTGATGGAAAAAATTTAATAATCTATTGGAAGCCTTT  
ACCCATTAATGAAGCTAATGGAAAAATACTTTCCTACAATGTATCGTGTTTCATCAGATG  
AGGAAACACAGTCCCTTTCTGAAATCCCTGATCCTCAGCACAAAGCAGAGATACGACTT  
GATAAGAATGACTACATCATCAGCGTAGTGGCTAAAAATTCTGTGGGCTCATCACCACC  
TTCCAAAATAGCGAGTATGGAAATTCCAAATGATGATCTCAAATAGAACAAAGTTGTTG  
GGATGGGAAAGGGGATTCTCCTCACCTGGCATTACGACCCCAACATGACTTGCGACTAC  
GTCATTAAGTGGTGTAACCTCGTCTCGGTGCGAACCATGCCTTATGGACTGGAGAAAAGT  
TCCCTCAAACAGCACTGAACTGTAATAGAATCTGATGAGTTTCGACCAGGTATAAGAT  
ATAATTTTTTCTGTATGGATGCAGAAATCAAGGATATCAATTATTACGCTCCATGATT  
GGATATATAGAAGAATTGGCTCCCATTTGTTGCACCAAATTTTACTGTTGAGGATACTTC  
TGCAGATTCGATATTAGTAAAATGGGAAGACATTCTGTGGAAGAACTTAGAGGCTTTT  
TAAGAGGATATTTGTTTTACTTTGGAAAAGGAGAAAGAGACACATCTAAGATGAGGGTT  
TTAGAATCAGGTCGTTCTGACATAAAAGTTAAGAATATTACTGACATATCCCAGAAGAC  
ACTGAGAATTGCTGATCTTCAAGGTAAAAAAGTTACCACCTGGTCTTGCGAGCCTATA  
CAGATGGTGGAGTGGGCCCCGAGAAGAGTATGTATGTGGTGACAAAGGAAAATTCTGTG  
GGATTAATTATTGCCATTCTCATCCAGTGGCAGTGGCTGTCATTGTTGGAGTGGTGAC  
AAGTATCCTTTGCTATCGGAAACGAGAATGGATTAAAGAAACCTTCTACCCTGATATTC  
CAAATCCAGAAAACCTGTAAAGCATTACAGTTTCAAAGAGTGTCTGTGAGGGAAGCAGT  
GCTCTTAAACATTGGAAATGAATCCTTGTACCCCAAATAATGTTGAGGTTCTGGAAAC  
TCGATCAGCATTTCTTAAATAGAAGATACAGAAATAATTTCCCAGTAGCTGAGCGTC  
CTGAAGATCGCTCTGATGCAGAGCCTGAAAACCATGTGGTGTGTCTTATTGTCCACCC  
ATCATTGAGGAAGAAATACCAAACCCAGCCGCAGATGAAGCTGGAGGGACTGCACAGGT  
TATTTACATTGATGTTTCACTCGATGTATCAGCCTCAAGCAAACCCAGAAGAAGAACAAG  
AAAATGACCCTGTAGGAGGGGCAGGCTATAAGCCACAGATGCACCTCCCCATTAATTCT  
ACTGTGGAAGATATAGCTGCAGAAGAGGACTTAGATAAAACTGCGGGTTACAGACCTCA  
GGCCAATGTAAATACATGGAATTTAGTGTCTCCAGACTCTCCTAGATCCATAGACAGCA  
ACAGTGAGATTGTCTCATTGGAAGTCCATGCTCCATTAATTCCCGACAATTTTGTATT  
CCTCCTAAAGATGAAGACTCTCCTAAATCTAATGGAGGAGGGTGGTCCTTTACAAACTT  
TTTTCAGAACAAACCAAACGATTAAACAGTGTACCGTGTCACTTCAGTCAGCCATCTCA  
ATAAGCTCTTACTGCTAGTGTGCTACATCAGCACTGGGCATTCTTGGAGGGATCCTGT  
GAAGTATTGTTAGGAGGTGAACTTCACTACATGTTAAGTTACACTGAAAGTTCATGTGC



TTTTAATGTAGTCTAAAAGCCAAAGTATAGTGACTCAGAATCCTCAATCCACAAAACCTC  
AAGATTGGGAGCTCTTTGTGATCAAGCCAAAGAATTCTCATGTACTCTACCTTCAAGAA  
GCATTTCAAGGCTAATACCTACTTGTACGTACATGTAAAACAAATCCCGCCGCAACTGT  
TTTCTGTTCTGTTGTTTGTGGTTTTCTCATATGTATACTTGGTGGAATTGTAAGTGGAT  
TTGCAGGCCAGGGAGAAAATGTCCAAGTAACAGGTGAAGTTTATTGTCCTGACGTTTAC  
TCCTTTCTAGATGAAAACCAAGCACAGATTTTAAAACTTCTAAGATTATTCTCCTCTAT  
CCACAGCATTACNNNNNNNNNNNNNNNNNNNGTAGTGACAGCGATTTAGTGTTTT  
GTTTGATAAAGTATGCTTATTTCTGTGCCTACTGTATAATGGTTATCAAACAGTTGTCT  
CAGGGGTACAACTTTGAAAACAAGTGTGACACTGACCAGCCCAAATCATAATCATGTT  
TTCTTGCTGTGATAGGTTTTGCTTGCTTTTCATTATTTTTTAGCTTTTATGCTTGCTT  
CCATTATTTTCAGTTGGTTGCCCTAATATTTAAAATTTTACTTCTAAGACTAGAGACCC  
ACATTTTTTAAAAATCATTTTATTTTGTGATACAGTGACAGCTTTATATGAGCAAATTC  
AATATTATTCATAAGCATGTAATTCCAGTGACTTACTATGTGAGATGACTACTAAGCAA  
TATCTAGCAGCGTTAGTTCCATATAGTTCTGATTGGATTTTCGTTCCCTCCTGAGGAGACC  
ATGCCGTTGAGCTTGGCTACCCAGGCAGTGGTGATCTTTGACACCTTCTGGTGGATGTT  
CCTCCCACTCATGAGTCTTTTCATCATGCCACATTATCTGATCCAGTCCTCACATTTTT  
AAATATAAACTAAAGAGAGAATGCTTCTTACAGGAACAGTTACCCAAGGGCTGTTTTCT  
TAGTAAGTGTCAATAAACTGATCTGGATCCATGGGCATACCTGTGTTTCGAGGTGCAGCAA  
TTGCTTGGTGAGCTGTGCAGAATTGATTGCCTTCAGCACAGCATCCTCTGCCACCCCTT  
GTTTCTCATAAGCGATGTCTGGAGTGATTGTGGTTCTTGAAAAGCAGAAGGAAAAACT  
AAAAAGTGTATCTTGTATTTTCCCTGCCCTCAGGTTGCCTATGTATTTTACCTTTTCAT  
ATTTAAGGCAAAAGTACTTGAAAATTTAAGTGTCCGAATAAGATATGTCTTTTTTGT  
TGTTTTTTTTTGGTTGGTTGTTTGTTTTTTATCATCTGAGATTCTGTAATGTATTTGCAA  
ATAATGGATCAATTAATTTTTTTTTGAAGCTCATATTGTATCTTTTTTAAAAACCATGTTG  
TGGAAAAAAGCCAGAGTGACAAGTGACAAAATCTATTTAGGAACTCTGTGTATGAATCC  
TGATTTTAACTGCTAGGATTCAGCTAAATTTCTGAGCTTTATGATCTGTGGAAATTTGG  
AATGAAATCGAATTCATTTTGTACATACATAGTATATTAAAACTATATAATAGTTCAT  
GAAATGTTTCAGTAATGAAAAAATATATCCAATCAGAGCCATCCCGAAAAA

A SEQ ID No.: 8828

The length of this sequence was determined using batch, automated computational methods and the sequence, as sense strand, its length, and the desired location of the probe sequence near the 3' end of the mRNA was submitted to Array Designer Ver 1.1 (Premier Biosoft International, Palo Alto, CA). Search quality was set at 100%, number of best probes set at 1, length range set at 50 base pairs, Target T<sub>m</sub> set at 75 C. degrees plus or minus 5 degrees, Hairpin max deltaG at 6.0 -kcal/mol., Self dimmer max deltaG at 6.0 -kcal/mol, Run/repeat (dinucleotide) max length set at 5, and Probe site minimum overlap set at 1. When none of the 49 possible probes met the criteria, the probe site would be moved 50 base pairs closer to the 5' end of the sequence and resubmitted to Array Designer for analysis. When no possible probes met the criteria, the variation on melting temperature was raised to plus and minus 8 degrees and the number of identical basepairs in a run increased to 6 so that a probe sequence was produced.

In the sequence above, using the criteria noted above, Array Designer Ver 1.1 designed a probe corresponding to oligonucleotide number 2280 in Table 8 and is indicated by underlining in the sequence above. It has a melting temperature of 68.4 degrees Celsius and a max run of 6 nucleotides and represents one of the cases where the criteria for probe design in Array Designer Ver 1.1 were relaxed in order to obtain an oligonucleotide near the 3' end of the mRNA (Low melting temperature was allowed).

#### Clone 463D12

Clone 463D12 was sequenced and compared to the nr, dbEST, and UniGene databases at NCBI using the BLAST search tool. The sequence matched accession number AI184553, an EST sequence with the definition line "qd60a05.x1 Soares\_testis\_NHT Homo sapiens cDNA clone IMAGE:1733840 3' similar to gb:M29550 PROTEIN PHOSPHATASE 2B CATALYTIC SUBUNIT 1 (HUMAN);, mRNA sequence." The E value of the alignment was  $1.00 \times 10^{-118}$ . The GenBank sequence begins with a poly-T region, suggesting that it is the antisense strand, read 5' to 3'. The beginning of this sequence is complementary to the 3' end of the mRNA sense strand. The accession number for this sequence was included in a text file of accession numbers representing antisense sequences. Sequences for antisense strand mRNAs were obtained by uploading a text file containing desired accession numbers as an Entrez

search query using the Batch Entrez web interface and saving the results locally as a FASTA file. The following sequence was obtained, and the region of alignment of clone 463D12 is outlined:

```

TTTTTTTTTTTTTCTTAAATAGCATTATTTTCTCTCAAAAAGCCTATTATGTACTAA
CAAGTGTTCTCTAAATTAGAAAGGCATCACTACTAAAATTTTATACATATTTTTTATA
TAAGAGAAGGAATATTGGGTACAATCTGAATTTCTCTTTATGATTTCTCTTAAAGTAT
AGAACAGCTATTAAAATGACTAATATTGCTAAAATGAAGGCTACTAAATTTCCCCAAGA
ATTTCCGGTGGAATGCCCAAAAATGGTGTTAAGATATGCAGAAGGGCCCATTTCAAGCAA
AGCAATCTCTCCACCCCTTCATAAAAGATTTAAGCTAAAAAAAAAAAAAAAAAAGAA[GAAA]
[ATCCAACAGCTGAAGACATTGGGCTATTTATAAATCTTCTCCAGTCCCCCAGACAGCC]
[TCACATGGGGGCTGTAAACAGCTAACTAAAATATCTTTGAGACTCTTATGTCCACACCC]
[ACTGACACAAGGAGAGCTGTAACCACAGTGAACTAGACTTTGCTTTCCTTTAGCAAGT]
[ATGTGCCTATGATAGTAACTGGAGTAAATGTAACA]GTAATAAAACAAATTTTTTTTAA
AAATAAAATTATACCTTTTTCTCCAACAAACGGTAAAGACCACGTGAAGACATCCATA
AAATTAGGCAACCAGTAAAGATGTGGAGAACCAGTAACTGTGAAATTCATCACATTA
TTTTCATACTTTAATACAGCAGCTTTAATTATTGGAGAACATCAAAGTAATTAGGTGCC
GAAAAACATTGTTATTAATGAAGGGAACCCCTGACGTTTGACCTTTTCTGTACCATCTA
TAGCCCTGGACTTGA (SEQ ID No. : 8829)

```

The FASTA file, including the sequence of AA184553, was then masked using the RepeatMasker web interface, as shown below. The region of alignment of clone 463D12 is outlined.

```

TTTTTTTTTTTTTCTTAAATAGCATTATTTTCTCTCAAAAAGCCTATTATGTACTAA
CAAGTGTTCTCTAAATTAGAAAGGCATCACTACNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNGAGAAGGAATATTGGGTACAATCTGAATTTCTCTTTATGATTTCTCTTAAAGTAT
AGAACAGCTATTAAAATGACTAATATTGCTAAAATGAAGGCTACTAAATTTCCCCAAGA
ATTTCCGGTGGAATGCCCAAAAATGGTGTTAAGATATGCAGAAGGGCCCATTTCAAGCAA
AGCAATCTCTCCACCCCTTCATAAAAGATTTAAGCTAAAAAAAAAAAAAAAAAAGAA[GAAA]
[ATCCAACAGCTGAAGACATTGGGCTATTTATAAATCTTCTCCAGTCCCCCAGACAGCC]
[TCACATGGGGGCTGTAAACAGCTAACTAAAATATCTTTGAGACTCTTATGTCCACACCC]

```

ACTGACACAAGGAGAGCTGTAACCACAGTGAACTAGACTTTGCTTTCCTTTAGCAAGT  
ATGTGCCTATGATAGTAAACTGGAGTAAATGTAACAGNNNNNNNNNNNNNNNNNNNNNNNN  
 NNNNNNNNNNNNNNNCC'TTTTTCTCCAACAAACGGTAAAGACCACGTGAAGACATCCATA  
 AAATTAGGCAACCAGTAAAGATGTGGAGAACCAGTAAACTGTCGAAATTCATCACATTA  
 TTTTCATACTTTAATACAGCAGCTTTAATTATTGGAGAACATCAAAGTAATTAGGTGCC  
 GAAAAACATTGTTATTAATGAAGGGAACCCCTGACGTTTGACCTTTTCTGTACCATCTA  
 TAGCCCTGGACTTGA Masked version of 463D12 sequence. (SEQ ID  
 NO:8830)

The sequence was submitted to Array Designer as described above, however, the desired location of the probe was indicated at base pair 50 and if no probe met the criteria, moved in the 3' direction. The complementary sequence from Array Designer was used, because the original sequence was antisense. The oligonucleotide designed by Array Designer corresponds to oligonucleotide number 4342 in Table 8 and is complementary to the underlined sequence above. The probe has a melting temperature of 72.7 degrees centigrade and a max run of 4 nucleotides.

#### Clone 72D4

Clone 72D4 was sequenced and compared to the nr, dbEST, and UniGene databases at NCBI using the BLAST search tool. No significant matches were found in any of these databases. When compared to the human genome draft, significant alignments were found to three consecutive regions of the reference sequence NT\_008060, as depicted below, suggesting that the insert contains three spliced exons of an unidentified gene.

Residue numbers on clone 72D4 sequence	Matching residue numbers on NT 008060
1 – 198	478646 – 478843
197 – 489	479876 – 480168
491 – 585	489271 – 489365

Because the reference sequence contains introns and may represent either the coding or noncoding strand for this gene, BioCardia's own sequence file was used to design the oligonucleotide. Two complementary probes were designed to ensure that the

sense strand was represented. The sequence of the insert in clone 72D4 is shown below, with the three putative exons outlined.

```

CAGGTCACACAGCACATCAGTGGCTACATGTGAGCTCAGACCTGGGTCTGCT
GCTGTCTGTCTTCCCAATATCCATGACCTTGACCTGATGCAGGTGTCTAGGGAT
ACGTCATCCCCGTCCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTCCGA
GGAGACAGAAGGGAGTGTCTGGACACCATGACGAGAGCTTGGCAGAATAAAT
AACTTCTTTAAACAATTTACGGCATGAAGAAATCTGGACCAGTTTATTAAAT
GGGATTTCTGCCACAAACCTTGAAGAATCACATCATCTTANNCCCAAGTGA
AACTGTGTTGCGTAACAAAGAACATGACTGCGCTCCACACATACATCATG
CCCGGCGAGGCGGGACACAAGTCAACGACGGAACACTTGAGACAGGCCTAC
AACTGTGCACGGGTCAGAAGCAAGTTTAAGCCATACTTGCTGCAGTGAGACT
ACATTTCTGTCTATAGAAGATACTGACTTGATCTGTTTTTCAGCTCCAGTTC
CCAGATGTGCGTGTGTGGTCCCCAAGTATCACCTTCCAATTTCTGGGAGCA
GTGCTCTGGCCGATCCTTGCCGCGCGGATAAAAAC (SEQ ID NO.: 8445)

```

The sequence was submitted to RepeatMasker, but no repetitive sequences were found. The sequence shown above was used to design the two 50-mer probes using Array Designer as described above. The probes are shown in bold typeface in the sequence depicted below. The probe in the sequence is oligonucleotide number 6415 (SEQ ID NO.: 6415) in Table 8 and the complementary probe is oligonucleotide number 6805 (SEQ ID NO.: 6805).

```

CAGGTCACACAGCACATCAGTGGCTACATGTGAGCTCAGACCTGGGTCTGCTGCTGTCT
GTCTTCCCAATATCCATGACCTTGACTGATGCAGGTGTCTAGGGATACGTCATCCCCG
TCCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTCCGAGGAGACAGAAGGGAGTGTCTG
GACACCATGACGAGAGCTTGGCAGAATAAATAACTTCTTTAAACAATTTTACGGCATGA
AGAAATCTGGACCAGTTTATTAAATGGGATTTCTGCCACAAACCTTGAAGAATCACAT
CATCTTANNCCCAAGTGAAACTGTGTTGCGTAACAAAGAACATGACTGCGCTCCACAC
ATACATCATTGCCCGGCGAGGCGGGACACAAGTCAACGACGGAACACTTGAGACAGGCC

```

TACAACTGTGCACGGGTCAGAAGCAAGTTTAAGCCATACTTGCTGCAGTGAGACTACAT  
 TTCTGTCTATAGAAGATACCTGACTTGATCTGTTTTTCAGCTCCAGTTCCCAGATGTGC  
 ←-----GTCAAGGGTCTACACG  
 GTGTTGTGGTCCCCAAGTATCACCTTCCAATTTCTGGGAG--→  
 CACAACACCAGGGGTTCATAGTGAAGGTTAAAG-5'  
 CAGTGCTCTGGCCGGATCCTTGCCGCGCGGATAAAAACT---→

#### Confirmation of probe sequence

Following probe design, each probe sequence was confirmed by comparing the sequence against dbEST, the UniGene cluster set, and the assembled human genome using BLASTn at NCBI. Alignments, accession numbers, gi numbers, UniGene cluster numbers and names were examined and the most common sequence used for the probe. The final probe set was compiled into Table 8.

#### *Example 22 - Production of an array of 8000 spotted 50mer oligonucleotides*

We produced an array of 8000 spotted 50mer oligonucleotides. Examples 20 and 21 exemplify the design and selection of probes for this array.

Sigma-Genosys (The Woodlands, TX) synthesized un-modified 50-mer oligonucleotides using standard phosphoramidite chemistry, with a starting scale of synthesis of 0.05  $\mu$ mole (see, e.g., R. Meyers, ed. (1995) Molecular Biology and Biotechnology: A Comprehensive Desk Reference). Briefly, to begin synthesis, a 3' hydroxyl nucleoside with a dimethoxytrityl (DMT) group at the 5' end was attached to a solid support. The DMT group was removed with trichloroacetic acid (TCA) in order to free the 5'-hydroxyl for the coupling reaction. Next, tetrazole and a phosphoramidite derivative of the next nucleotide were added. The tetrazole protonates the nitrogen of the phosphoramidite, making it susceptible to nucleophilic attack. The DMT group at the 5'-end of the hydroxyl group blocks further addition of nucleotides in excess. Next, the inter-nucleotide linkage was converted to a phosphotriester bond in an oxidation step using an oxidizing agent and water as the oxygen donor. Excess nucleotides were filtered

out and the cycle for the next nucleotide was started by the removal of the DMT protecting group. Following the synthesis, the oligo was cleaved from the solid support. The oligonucleotides were desalted, resuspended in water at a concentration of 100 or 200  $\mu\text{M}$ , and placed in 96-deep well format. The oligonucleotides were re-arrayed into Whatman Uniplate 384-well polypropylene V bottom plates. The oligonucleotides were diluted to a final concentration 30  $\mu\text{M}$  in 1X Micro Spotting Solution Plus (Telechem/arrayit.com, Sunnyvale, CA) in a total volume of 15  $\mu\text{l}$ . In total, 8,031 oligonucleotides were arrayed into twenty-one 384-well plates.

Arrays were produced on Telechem/arrayit.com Super amine glass substrates (Telechem/arrayit.com), which were manufactured in 0.1 mm filtered clean room with exact dimensions of 25x76x0.96 mm. The arrays were printed using the Virtek Chipwriter with a Telechem 48 pin Micro Spotting Printhead. The Printhead was loaded with 48 Stealth SMP3B TeleChem Micro Spotting Pins, which were used to print oligonucleotides onto the slide with the spot size being 110-115 microns in diameter.

***Example 23- Amplification, labeling, and hybridization of total RNA to an oligonucleotide microarray***

**Amplification, labeling, hybridization and scanning**

Samples consisting of at least 2  $\mu\text{g}$  of intact total RNA were further processed for array hybridization. Amplification and labeling of total RNA samples was performed in three successive enzymatic reactions. First, a single-stranded DNA copy of the RNA was made (hereinafter, "ss-cDNA"). Second, the ss-cDNA was used as a template for the complementary DNA strand, producing double-stranded cDNA (hereinafter, "ds-cDNA, or cDNA"). Third, linear amplification was performed by in vitro transcription from a bacterial T<sub>7</sub> promoter. During this step, fluorescent-conjugated nucleotides were incorporated into the amplified RNA (hereinafter, "aRNA").

The first strand cDNA was produced using the Invitrogen kit (Superscript II). The first strand cDNA was produced in a reaction composed of 50 mM Tris-HCl (pH 8.3), 75 mM KCl, and 3 mM MgCl<sub>2</sub> (1x First Strand Buffer, Invitrogen), 0.5 mM dGTP, 0.5 mM dATP, 0.5 mM dTTP, 0.5 mM dCTP, 10 mM DTT, 10 U reverse transcriptase (Superscript II, Invitrogen, #18064014), 15 U RNase inhibitor (RNAGuard, Amersham

Pharmacia, #27-0815-01), 5  $\mu$ M T7T24 primer

(5'-GGCCAGTGAATTGTAATACGACTCACTATAGGGAGGCGGTTTTTTTTTTTTTTT  
TTTTTTTTTTTTT-3'), (SEQ ID NO.:8831) and 2  $\mu$ g of selected sample total RNA.

Several purified, recombinant control mRNAs from the plant *Arabidopsis thaliana* were added to the reaction mixture: 20 pg of CAB and RCA, 14 pg of LTP4 and NAC1, and 2 pg of RCP1 and XCP2 (Stratagene, #252201, #252202, #252204, #252208, #252207, #252206 respectively). The control RNAs allow the estimate of copy numbers for individual mRNAs in the clinical sample because corresponding sense oligonucleotide probes for each of these plant genes are present on the microarray. The final reaction volume of 40  $\mu$ l was incubated at 42°C for 60 min.

For synthesis of the second cDNA strand, DNA polymerase and RNase were added to the previous reaction, bringing the final volume to 150  $\mu$ l. The previous contents were diluted and new substrates were added to a final concentration of 20 mM Tris-HCl (pH 7.0) (Fisher Scientific, Pittsburgh, PA #BP1756-100), 90 mM KCl (Teknova, Half Moon Bay, CA, #0313-500), 4.6 mM  $MgCl_2$  (Teknova, Half Moon Bay, CA, #0304-500), 10 mM  $(NH_4)_2SO_4$  (Fisher Scientific #A702-500) (1x Second Strand buffer, Invitrogen), 0.266 mM dGTP, 0.266 mM dATP, 0.266 mM dTTP, 0.266 mM dCTP, 40 U *E. coli* DNA polymerase (Invitrogen, #18010-025), and 2 U RNaseH (Invitrogen, #18021-014). The second strand synthesis took place at 16°C for 120 minutes.

Following second-strand synthesis, the ds-cDNA was purified from the enzymes, dNTPs, and buffers before proceeding to amplification, using phenol-chloroform extraction followed by ethanol precipitation of the cDNA in the presence of glycogen. Alternatively, a silica-gel column is used to purify the cDNA (e.g. Qiaquick PCR cleanup from Qiagen, #28104). The cDNA was collected by centrifugation at  $>10,000 \times g$  for 30 minutes, the supernatant is aspirated, and 150  $\mu$ l of 70% ethanol, 30% water was added to wash the DNA pellet. Following centrifugation, the supernatant was removed, and residual ethanol was evaporated at room temperature.

Linear amplification of the cDNA was performed by in vitro transcription of the cDNA. The cDNA pellet from the step described above was resuspended in 7.4  $\mu$ l of water, and in vitro transcription reaction buffer was added to a final volume of 20  $\mu$ l



containing 7.5 mM GTP, 7.5 mM ATP, 7.5 mM TTP, 2.25 mM CTP, 1.025 mM Cy3-conjugated CTP (Perkin Elmer; Boston, MA, #NEL-580), 1x reaction buffer (Ambion, Megascript Kit, Austin, TX and #1334) and 1 % T<sub>7</sub> polymerase enzyme mix (Ambion, Megascript Kit, Austin, TX and #1334). This reaction was incubated at 37°C overnight. Following in vitro transcription, the RNA was purified from the enzyme, buffers, and excess NTPs using the RNeasy kit from Qiagen (Valencia, CA; # 74106) as described in the vendor's protocol. A second elution step was performed and the two eluates were combined for a final volume of 60 µl. RNA is quantified using an Agilent 2100 bioanalyzer with the RNA 6000 nano LabChip.

Reference RNA was prepared as described above, except that 10 µg of total RNA was the starting material for amplification, and Cy5-CTP was incorporated instead of Cy3CTP. Reference RNA from five reactions was pooled together and quantitated as described above.

#### Hybridization to an array

RNA was prepared for hybridization as follows: for an 18mm×55mm array, 20 µg of amplified RNA (aRNA) was combined with 20 µg of reference aRNA. The combined sample and reference aRNA was concentrated by evaporating the water to 5 µl in a vacuum evaporator. Five µl of 20 mM zinc acetate was added to the aRNA and the mix incubated at 60°C for 10 minutes to fragment the RNA into 50-200 bp pieces. Following the incubation, 40 µl of hybridization buffer was added to achieve final concentrations of 5×SSC and 0.20 %SDS with 0.1 µg/ul of Cot-1 DNA (Invitrogen) as a competitor DNA. The final hybridization mix was heated to 98°C, and then reduced to 50°C at 0.1°C per second.

Alternatively, formamide is included in the hybridization mixture to lower the hybridization temperature.

The hybridization mixture was applied to the microarray surface, covered with a glass coverslip (Corning, #2935-246), and incubated in a humidified chamber (Telechem, AHC-10) at 62°C overnight. Following incubation, the slides were washed in 2×SSC, 0.1% SDS for two minutes, then in 2×SSC for two minutes, then in 0.2×SSC for two

minutes. The arrays were spun at 1000×g for 2 minutes to dry them. The dry microarrays are then scanned by methods described above.

***Example 24: Analysis of Human Transplant Patient Mononuclear cell RNA Hybridized to a 24,000 Feature Microarray.***

Patients who had recently undergone cardiac transplant and were being monitored for rejection by biopsy were selected and enrolled in a clinical study, as described in Example 11. Blood was drawn from several patients and mononuclear cells isolated as described in Example 8. The rejection grade determined from the biopsy is presented in Table 9 for some of the patient samples. Four samples (14-0001-2, 14-0001-3, 14-0005-1 and 14-0005-2) from one center were selected for further examination. Two sets of paired samples were available that allowed comparison of severe rejection (rejection grade 3A) to minimal or no rejection (rejection grade 1 or 0). These two groups are designated "high rejection grade" and "low rejection grade", respectively.

Additional RNA was isolated from the mononuclear cells of enrolled cardiac allograft recipients as described in Example 8. The yield of RNA from 8 ml of blood is shown in Table 9, below.

1 or 2 µg of total RNA was amplified by making cDNA copies using a T7T24 primer and subsequent in vitro transcription, as described in Example 23. This "target" amplified RNA was labeled by incorporation of Cy3-conjugated nucleotides, as described in Example 23. The amplified RNA was quantified by analysis at A260 on a spectrophotometer.

Hybridization to the 8,000 probe (24,000-feature) microarray (described in Examples 20-22) was performed essentially as described in Example 23. 20 µg of amplified and labeled RNA was combined with 20 µg of R50 reference RNA that was labeled and prepared as described in Example 9.

The sample and reference amplified and labeled RNAs were combined and fragmented at 95°C for 30 min, as described in Example 23. The fragmented RNA was mixed with 40 µl of hybridization solution (to bring the total to 50 µl) and applied to the 8,000-probe, 24,000-feature microarray and covered with a 21mm×60mm coverslip. The arrays were hybridized overnight and washed as described in Example 23.

Once hybridized and washed, the arrays were scanned as described in Example 23. The full image produced by the Agilent scanner G2565AA was flipped, rotated, and split into two images (one for each signal channel) using TIFFSplitter (Agilent, Palo Alto, CA). The two channels are the output at 532 nm (Cy3-labeled sample) and 633 nm (Cy5-labeled R50). The individual images were loaded into GenePix 3.0 (Axon Instruments, Union City, CA) and the software was used to determine the median pixel intensity for each feature ( $F_i$ ) and the median pixel intensity of the local background for each feature ( $B_i$ ) in both channels. The standard deviation ( $SDF_i$  and  $SDB_i$ ) for each is also determined. Features for which GenePix could not discriminate the feature from the background were “flagged”, and the data were deleted from further consideration.

From the remaining data, the following calculations were performed.

The first calculation performed was the signal to noise ratio:

$$S/N = \frac{F_i - B_i}{SDB_i}$$

All features with a S/N less than 3 in either channel were removed from further consideration. All features that did not have GenePix flags and passed the S/N test were considered usable features. The background-subtracted signal (hereinafter, “BGSS”) was calculated for each usable feature in each channel ( $BGSS_i = F_i - B_i$ ).

The BGSS was used for the scaling step within each channel. The median BGSS for all usable features was calculated. The  $BGSS_i$  for each feature was divided by the median BGSS. The median BGSS for the scaled data then became 1 for each channel on each array. This operation did not change the distribution of the data, but did allow each to be directly compared

The scaled  $BGSS_i$  ( $S_i$ ) for each feature was used to calculate the ratio of the Cy3 to the Cy5 signal:

$$R_n = \frac{Cy3S_i}{Cy5S_i}$$

The ratio data from the triplicate features were combined for each probe on the array. If all three features were still usable, their average was taken ( $R_p$ ) and the coefficient of variation (hereinafter "CV") was determined. If the CV was less than 15%, the average was carried forward for that probe. If the CV was greater than 15% for the triplicate features, then the average of the two features with the closest  $R_n$  values were used. If there were only two usable features for a given probe, the average of the two features was used. If there was only one usable feature for a given probe, the value of that feature was used.

The logarithm of the average ratio was taken for each probe ( $\log R_p$ ). This value was used for comparison among arrays. For comparison of gene expression in high rejection grade patients to gene expression from low rejection grade patients, the average was taken for each probe for hybridizations 107739 and 107741 (high rejection grades) and 107740 and 107742 (low rejection grades). Since there were only two patients, each with a change from high to low rejection grade, there should be less variability in the data than if all four samples were from different patients. The results of this comparison were plotted in Figure 9. The X-axis is the high rejection grade average (the average of each probe for hybridizations of samples from high rejection grade patients) and the Y-axis is the low rejection grade average. There was complete data for 5562 probes, all plotted in Figure 9. Each "point" in the graph corresponded to a probe on the microarray.

A "cluster" of points were shaded in white. Points within the cluster represented genes with expression that is not significantly changed from one sample group to the other. The far ends of the cluster corresponded to genes that are expressed at either low or high levels in each group.

Outlier points, corresponding to genes with differential expression between high and low rejection grade patients, were shaded black and are further described in Table 10. There was one point above the cluster (indicating that expression was relatively higher in the low rejection grade than in the low rejection grade), and 7 points below the cluster (indicating that expression was relatively higher in the high rejection grade than in the low rejection grade).

Many of the differentially expressed genes had unknown or poorly described functions. One, corresponding to probe number 8091, was known in the public databases only as a predicted mRNA and protein.

Using the data from samples 107739 (Grade 3A rejection) and 107742 (Grade 0), a scaled ratio of sample (Cy3) to reference (Cy5) expression was determined using the same techniques. The ratio of was taken of these scaled ratios, denoted "the ratio of scaled ratios (hereinafter, "SR"). Replicate features were not combined and all probes with  $S/N < 3$  in either channel were filtered out. Some probes with differential expression between these two samples are shown in Figure 10. In this Figure, the probes are sorted from the top to the bottom by relative expression in the first grade 0 sample vs grade 3A (ratio of SRs, grade 0/3A).

Diagnostic accuracy for sample classification is determined using additional samples and suitable methods for correlation analysis.

Comparing Figure 10 and Table 10, genes of particular interest include those corresponding to SEQ ID NO:2476, SEQ ID NO: 2407, SEQ ID NO:2192, SEQ ID NO: 2283, SEQ ID NO:6025, SEQ ID NO: 4481, SEQ ID NO:3761, SEQ ID NO: 3791, SEQ ID NO:4476, SEQ ID NO: 4398, SEQ ID NO:7401, SEQ ID NO: 1796, SEQ ID NO:4423, SEQ ID NO: 4429, SEQ ID NO:4430, SEQ ID NO: 4767, SEQ ID NO:4829 and SEQ ID NO: 8091.

Table 1

<b>Disease Classification</b>	<b>Disease/Patient Group</b>
<b>Cardiovascular Disease</b>	Atherosclerosis Unstable angina Myocardial Infarction Restenosis after angioplasty Congestive Heart Failure Myocarditis Endocarditis Endothelial Dysfunction Cardiomyopathy Cardiovascular drug use
<b>Endocrine Disease</b>	Diabetes Mellitus I and II Thyroiditis Addisson's Disease
<b>Infectious Disease</b>	Hepatitis A, B, C, D, E, G Malaria Tuberculosis HIV Pneumocystis Carinii Giardia Toxoplasmosis Lyme Disease Rocky Mountain Spotted Fever Cytomegalovirus Epstein Barr Virus Herpes Simplex Virus Clostridium Dificile Colitis Meningitis (all organisms) Pneumonia (all organisms) Urinary Tract Infection (all organisms) Infectious Diarrhea (all organisms) Anti-infectious drug use
<b>Angiogenesis</b>	Pathologic angiogenesis Physiologic angiogenesis Treatment induced angiogenesis Pro or anti-angiogenic drug use
<b>Inflammatory/Rheumatic</b>	Rheumatoid Arthritis Systemic Lupus Erythematosus Sjogrens Disease CREST syndrome Scleroderma Ankylosing Spondylitis Crohn's Ulcerative Colitis Primary Sclerosing Cholangitis

Table 1 (continued)

Disease Classification	Disease/Patient Group
<b>Inflammatory/Rheumatic</b>	Appendicitis Diverticulitis Primary Biliary Sclerosis Wegener's Granulomatosis Polyarteritis nodosa Whipple's Disease Psoriasis Microscopic Polyangiitis Takayasu's Disease Kawasaki's Disease Autoimmune hepatitis Asthma Churg-Strauss Disease Behrger's Disease Raynaud's Disease Cholecystitis Sarcoidosis Asbestosis Pneumoconioses Antiinflammatory drug use
<b>Transplant Rejection</b>	Heart Lung Liver Pancreas Bowel Bone Marrow Stem Cell Graft versus host disease Transplant vasculopathy Skin Cornea Immunosuppressive drug use
<b>Malignant Disorders</b>	Leukemia Lymphoma Carcinoma Sarcoma
<b>Neurological Disease</b>	Alzheimer's Dementia Pick's Disease Multiple Sclerosis Guillain Barre Syndrome Peripheral Neuropathy

**Table 2: Candidate genes, Database mining**

Unigene clusters are listed.

Cluster numbers are defined as in Unigene build #133 uploaded on: Fri Apr 20 2001

CD50	<a href="#">Hs.99995</a>	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA.	<a href="#">Hs.79194</a>
CD70 = CD27L	<a href="#">Hs.99899</a>	Nucleolin (NCL)	<a href="#">Hs.79110</a>
MDC	<a href="#">Hs.97203</a>	MAPK14	<a href="#">Hs.79107</a>
CD3z	<a href="#">Hs.97087</a>	CD100	<a href="#">Hs.79089</a>
CD19	<a href="#">Hs.96023</a>	OX-2	<a href="#">Hs.79015</a>
	<a href="#">Hs.95388</a>	PCNA	<a href="#">Hs.78996</a>
CD3d	<a href="#">Hs.95327</a>		<a href="#">Hs.78909</a>
	<a href="#">Hs.9456</a>	GRO-a	<a href="#">Hs.789</a>
interleukin 6	<a href="#">Hs.93913</a>	CDw32A	<a href="#">Hs.78864</a>
phospholipaseA2	<a href="#">Hs.93304</a>	H.sapiens mRNA for herpesvirus associated ubiquitin-specific protease (HAUSP).	<a href="#">Hs.78683</a>
Human mRNA for KIAA0128 gene, partial cds.	<a href="#">Hs.90998</a>	CD41b = LIBS1	<a href="#">Hs.785</a>
CD48	<a href="#">Hs.901</a>	ANXA1 (LPC1)	<a href="#">Hs.78225</a>
heat shock 70kD protein 1A	<a href="#">Hs.8997</a>	CD31	<a href="#">Hs.78146</a>
TxA2 receptor	<a href="#">Hs.89887</a>	Homo sapiens TERF1 (TRF1)-interacting nuclear factor 2 (TINF2), mRNA.	<a href="#">Hs.7797</a>
fragile X mental retardation protein (FMR-1)	<a href="#">Hs.89764</a>	major histocompatibility complex, class I, B	<a href="#">Hs.77961</a>
CD20	<a href="#">Hs.89751</a>	LOX1	<a href="#">Hs.77729</a>
ENA-78	<a href="#">Hs.89714</a>	major histocompatibility complex, class II, DM alpha	<a href="#">Hs.77522</a>
IL-2	<a href="#">Hs.89679</a>	CD64	<a href="#">Hs.77424</a>
CD79b	<a href="#">Hs.89575</a>	CD71	<a href="#">Hs.77356</a>
CD2	<a href="#">Hs.89476</a>		<a href="#">Hs.77054</a>
SDF-1=CXCR4	<a href="#">Hs.89414</a>	HLA-DRA	<a href="#">Hs.76807</a>
CD61	<a href="#">Hs.87149</a>	CD105	<a href="#">Hs.76753</a>
IFN-g	<a href="#">Hs.856</a>		<a href="#">Hs.76691</a>
CD34	<a href="#">Hs.85289</a>	TNF-alpha	<a href="#">Hs.76507</a>
CD104	<a href="#">Hs.85266</a>	LCP1	<a href="#">Hs.76506</a>
CD8	<a href="#">Hs.85258</a>	TMSB4X	<a href="#">Hs.75968</a>
IGF-1	<a href="#">Hs.85112</a>	PAI2	<a href="#">Hs.75716</a>
CD103	<a href="#">Hs.851</a>	MIP-1b	<a href="#">Hs.75703</a>
IL-13	<a href="#">Hs.845</a>	CD58	<a href="#">Hs.75626</a>
RPA1	<a href="#">Hs.84318</a>	CD36	<a href="#">Hs.75613</a>
CD74	<a href="#">Hs.84298</a>	hnRNP A2 / hnRNP B1	<a href="#">Hs.75598</a>
CD132	<a href="#">Hs.84</a>	CD124	<a href="#">Hs.75545</a>
CD18	<a href="#">Hs.83968</a>	MIP-3a	<a href="#">Hs.75498</a>
Cathepsin K	<a href="#">Hs.83942</a>	beta-2-microglobulin	<a href="#">Hs.75415</a>
CD80	<a href="#">Hs.838</a>	FPR1	<a href="#">Hs.753</a>
CD46	<a href="#">Hs.83532</a>	Topo2B	<a href="#">Hs.75248</a>
NFKB1	<a href="#">Hs.83428</a>	interleukin enhancer binding factor 2, 45kD	<a href="#">Hs.75117</a>
IL-18	<a href="#">Hs.83077</a>	chloride intracellular channel 1	<a href="#">Hs.74276</a>
interleukin 14	<a href="#">Hs.83004</a>	EGR3	<a href="#">Hs.74088</a>
L-selectin = CD62L	<a href="#">Hs.82848</a>	MIP-1a	<a href="#">Hs.73817</a>
CD107b	<a href="#">Hs.8262</a>	CD62P = p-selectin	<a href="#">Hs.73800</a>
CD69	<a href="#">Hs.82401</a>	CD21	<a href="#">Hs.73792</a>
CD95	<a href="#">Hs.82359</a>	APE	<a href="#">Hs.73722</a>
CD53	<a href="#">Hs.82212</a>	IL12Rb2	<a href="#">Hs.73165</a>



Table 2: Candidate genes, Database mining

Human lymphocyte specific interferon regulatory factor/interferon regulatory factor 4 (LSIRF/IRF4) mRNA, complete cds.	Hs.82132	NFKB2	Hs.73090
IL-16	Hs.82127	I-309	Hs.72918
DUT	Hs.82113	immunoglobulin superfamily, member 4	Hs.70337
CDw121a	Hs.82112	IL-3	Hs.694
PAI-1	Hs.82085		Hs.6895
TGF- $\beta$ R2	Hs.82028	NTH1	Hs.66196
CD117	Hs.81665	CD40L	Hs.652
HLA-DPB1	Hs.814	IL-11R	Hs.64310
NFKBIA	Hs.81328	Homo sapiens toll-like receptor 2 (TLR2) mRNA.	Hs.63668
CD6	Hs.81226	ferritin H chain	Hs.62954
IL-1 RA	Hs.81134	IL8	Hs.624
UBE2B (RAD6B)	Hs.811	Tissue Factor	Hs.62192
Lyn	Hs.80887	F-box only protein 7	Hs.5912
STAT4	Hs.80642	CD5	Hs.58685
UBE2A (RAD6A)	Hs.80612	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	Hs.5662
Fractalkine	Hs.80420	SCYA11	Hs.54460
IK cytokine, down-regulator of HLA II	Hs.8024	IK1	Hs.54452
	Hs.79933	CCR1	Hs.516
CD79a	Hs.79630	Homo sapiens TRAIL receptor 2 mRNA, complete cds.	Hs.51233
	Hs.7942	CD11c	Hs.51077
nuclear factor, interleukin 3 regulated	Hs.79334	CD66a	Hs.50964
CD83	Hs.79197	JAK1	Hs.50651
DC-CK1	Hs.16530	Homo sapiens programmed cell death 4 (PDCD4), mRNA.	Hs.100407
CCR7	Hs.1652	SCYB13 (CXCL13)	Hs.100431
TLR4	Hs.159239	SMAD7	Hs.100602
EST	Hs.158975	RAD51L1 (RAD51B)	Hs.100669
EST	Hs.158966	PPARG	Hs.100724
EST	Hs.158965	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	Hs.101047
EST	Hs.158943	major histocompatibility complex, class I-like sequence	Hs.101840
EST	Hs.158894	immunoglobulin superfamily containing leucine-rich repeat	Hs.102171
EST	Hs.158877	CD166	Hs.10247
EST	Hs.157815	fibroblast tropomyosin TM30 (pl)	Hs.102824
EST	Hs.157813	interleukin 1 receptor-like 2	Hs.102865
ESTs	Hs.157569	GTF2H4	Hs.102910
immunoglobulin kappa constant	Hs.156110		Hs.10326
INPP5D	Hs.155939	Human ITAC (IBICK)	Hs.103982
C3AR1	Hs.155935	novel protein with MAM domain	Hs.104311
PRKDC	Hs.155637	ESTs, Weakly similar to interleukin enhancer binding factor 2 [H.sapiens]	Hs.105125

Table 2: Candidate genes, Database mining

MHC class II HLA-DRw53-associated glycoprotein	<a href="#">Hs.155122</a>	Homo sapiens clone 24686 mRNA sequence.	<a href="#">Hs.105509</a>
CD73	<a href="#">Hs.153952</a>		<a href="#">Hs.105532</a>
CD37	<a href="#">Hs.153053</a>	Homo sapiens granulysin (GNLY), transcript variant 519, mRNA.	<a href="#">Hs.105806</a>
IFNAR1	<a href="#">Hs.1513</a>	CD77	<a href="#">Hs.105956</a>
Homo sapiens solute carrier family 21 (organic anion transporter), member 11 (SLC21A11), mRNA.	<a href="#">Hs.14805</a>	RD RNA-binding protein	<a href="#">Hs.106061</a>
EST	<a href="#">Hs.146627</a>		<a href="#">Hs.106673</a>
SET translocation (myeloid leukemia-associated)	<a href="#">Hs.145279</a>		<a href="#">Hs.10669</a>
EST	<a href="#">Hs.144119</a>	Homo sapiens clone 24818 mRNA sequence.	<a href="#">Hs.106823</a>
ESTs	<a href="#">Hs.143534</a>		<a href="#">Hs.106826</a>
STAT3	<a href="#">Hs.142258</a>		<a href="#">Hs.10712</a>
CD96	<a href="#">Hs.142023</a>		<a href="#">Hs.107149</a>
CD23	<a href="#">Hs.1416</a>	hypothetical protein	<a href="#">Hs.10729</a>
EGR2	<a href="#">Hs.1395</a>	Tachykinin Receptor 1	<a href="#">Hs.1080</a>
CDw84	<a href="#">Hs.137548</a>	glycophorin A	<a href="#">Hs.108694</a>
CD55	<a href="#">Hs.1369</a>	Histone H1x	<a href="#">Hs.109804</a>
EST	<a href="#">Hs.135339</a>	CD66d	<a href="#">Hs.11</a>
GM-CSF	<a href="#">Hs.1349</a>	interleukin 17	<a href="#">Hs.110040</a>
EST	<a href="#">Hs.133175</a>		<a href="#">Hs.110131</a>
CD1a	<a href="#">Hs.1309</a>	major histocompatibility complex, class I, F	<a href="#">Hs.110309</a>
CD10	<a href="#">Hs.1298</a>	REV1	<a href="#">Hs.110347</a>
HVEM	<a href="#">Hs.129708</a>	HCR	<a href="#">Hs.110746</a>
C9	<a href="#">Hs.1290</a>	VWF	<a href="#">Hs.110802</a>
C6	<a href="#">Hs.1282</a>	high affinity immunoglobulin epsilon receptor beta subunit	<a href="#">Hs.11090</a>
C1R	<a href="#">Hs.1279</a>	interleukin 22 receptor	<a href="#">Hs.110915</a>
IL-1b	<a href="#">Hs.126256</a>		<a href="#">Hs.110978</a>
CD9	<a href="#">Hs.1244</a>	Homo sapiens ubiquitin specific protease 6 (Tre-2 oncogene) (USP6), mRNA.	<a href="#">Hs.111065</a>
	<a href="#">Hs.12305</a>		<a href="#">Hs.111128</a>
Homo sapiens Vanin 2 (VNN2) mRNA.	<a href="#">Hs.121102</a>	MMP2	<a href="#">Hs.111301</a>
Hsp10	<a href="#">Hs.1197</a>	major histocompatibility complex, class II, DN alpha	<a href="#">Hs.11135</a>
CD59	<a href="#">Hs.119663</a>	LTBR	<a href="#">Hs.1116</a>
CD51	<a href="#">Hs.118512</a>	ESTs, Weakly similar to A41285 interleukin enhancer-binding factor ILF-1 [H.sapiens]	<a href="#">Hs.111941</a>
CD49a	<a href="#">Hs.116774</a>	Homo sapiens STRIN protein (STRIN), mRNA.	<a href="#">Hs.112144</a>
CD72	<a href="#">Hs.116481</a>	MSH5	<a href="#">Hs.112193</a>
HLA-DMB	<a href="#">Hs.1162</a>	TCRg	<a href="#">Hs.112259</a>
MCP-4	<a href="#">Hs.11383</a>		<a href="#">Hs.11307</a>
	<a href="#">Hs.111554</a>	CMKRL2	<a href="#">Hs.113207</a>

Table 2: Candidate genes, Database mining

ferritin L chain	Hs.111334	CCR8	Hs.113222
TGF-b	Hs.1103	LILRA3	Hs.113277
Homo sapiens ras homolog gene family, member H (ARHH), mRNA.	Hs.109918	Human CXCR-5 (BLR-1)	Hs.113916
lysosomal alpha-mannosidase (MANB)	Hs.108969	RAD51C	Hs.11393
	Hs.108327	myosin, heavy polypeptide 8, skeletal muscle, perinatal	Hs.113973
granzyme B	Hs.1051	CD42a	Hs.1144
HCC-4	Hs.10458	TNFRSF11A	Hs.114676
	Hs.10362		Hs.114931
	Hs.102630	MSH4	Hs.115246
	Hs.101382	Homo sapiens dendritic cell immunoreceptor (DCIR), mRNA.	Hs.115515
C4BPA	Hs.1012	REV3L (POLZ)	Hs.115521
CD125	Hs.100001	JAK2	Hs.115541
TERF2	Hs.100030	OPG ligand	Hs.115770
LIG3	Hs.100299	PCDH12	Hs.115897
	Hs.157489		Hs.166235
EST	Hs.157560	POLE1	Hs.166846
EST	Hs.157808	regulatory factor X, 5 (influences HLA class II expression)	Hs.166891
EST	Hs.157811	PIG-F (phosphatidyl-inositol-glycan class F)	Hs.166982
	Hs.158127	ESTs, Moderately similar to ILF1_HUMAN INTERLEUKIN ENHANCER-BINDING FACTOR 1 [H.sapiens]	Hs.167154
interleukin 18 receptor accessory protein	Hs.158315	HLA-DRB6	Hs.167385
CCR3	Hs.158324	ret finger protein-like 3	Hs.167751
Human DNA sequence from clone CTA-390C10 on chromosome 22q11.21-12.1 Contains an Immunoglobulin-like gene and a pseudogene similar to Beta Crystallin, ESTs, STSs, GSSs and taga and tat repeat polymorphisms	Hs.158352	CD56	Hs.167988
ESTs	Hs.158576	RBT1	Hs.169138
	Hs.158874	APOE	Hs.169401
EST	Hs.158875		Hs.16944
EST	Hs.158876		Hs.169470
EST	Hs.158878	MMP12	Hs.1695
EST	Hs.158956	CD161	Hs.169824
EST	Hs.158967	tenascin XB	Hs.169886
EST	Hs.158969		Hs.170027
EST	Hs.158971		Hs.170150
EST	Hs.158988	C4A	Hs.170250

Table 2: Candidate genes, Database mining

CD120a=TNFR-1	<u>Hs.159</u>	TP53BP1	Hs.170263
EST	Hs.159000	ESTs	Hs.170274
	Hs.159013	ESTs, Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY□ [H.sapiens]	Hs.170338
EST	Hs.159025	ESTs	Hs.170578
EST	Hs.159059	EST	Hs.170579
IL18R1	<u>Hs.159301</u>	ESTs	Hs.170580
ftp-3	Hs.159494	EST	Hs.170581
CASP8	Hs.159651	ESTs	Hs.170583
EST	Hs.159655	EST	Hs.170586
EST	Hs.159660	EST	Hs.170588
EST	Hs.159678	EST	Hs.170589
kallikrein 12 (KLK12)	Hs.159679		Hs.170772
EST	Hs.159682	ESTs	Hs.170786
EST	Hs.159683	EST	Hs.170909
EST	Hs.159693	EST	Hs.170912
EST	Hs.159706	EST	Hs.170933
EST	Hs.159718	ESTs	Hs.171004
SPO11	Hs.159737	EST	Hs.171095
EST	Hs.159754	EST	Hs.171098
EST	Hs.160401	ESTs	Hs.171101
EST	Hs.160405	EST	Hs.171108
EST	Hs.160408	ESTs	Hs.171110
EST	Hs.160410	ESTs	Hs.171113
EST	Hs.160423	ESTs	Hs.171117
RPA3	Hs.1608	EST	Hs.171119
ESTs	Hs.160946	ESTs	Hs.171120
EST	Hs.160956	EST	Hs.171122
ESTs	Hs.160978	EST	Hs.171123
EST	Hs.160980	EST	Hs.171124
EST	Hs.160981	EST	Hs.171140
EST	Hs.160982	EST	Hs.171216
EST	Hs.160983	EST	Hs.171260
Tachykinin Receptor 2	Hs.161305	ESTs	Hs.171264
RAD17 (RAD24)	Hs.16184	RIP	Hs.171545
Human phosphatidylinositol 3-kinase catalytic subunit p110delta mRNA, complete cds.	Hs.162808	ESTs, Weakly similar to immunoglobulin superfamily member [D.melanogaster]	<u>Hs.171697</u>
Human alpha-1 Ig germline C-region membrane-coding region, 3' end	<u>Hs.163271</u>	CD22	<u>Hs.171763</u>
GCP-2	<u>Hs.164021</u>		Hs.171776
	Hs.164284	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	<u>Hs.171921</u>
EST	Hs.164331	interleukin 11	<u>Hs.1721</u>
	Hs.164427	CD11b	<u>Hs.172631</u>
	Hs.165568	EST, Highly similar to APS [H.sapiens]	Hs.172656
ER	Hs.1657	ALK1	Hs.172670

Table 2: Candidate genes, Database mining

EST, Highly similar to JM26 [H.sapiens]	Hs.165701		Hs.172674
EST	Hs.165702	CD123	Hs.172689
EST	Hs.165704	ESTs	Hs.172822
EST	Hs.165732	CollaI	Hs.172928
regulatory factor X, 3 (influences HLA class II expression)	Hs.166019		Hs.172998
LIG4	Hs.166091		Hs.173081
TNFSF18	Hs.248197	myosin, heavy polypeptide 3, skeletal muscle, embryonic	Hs.173084
EST	Hs.248228		Hs.173201
H.sapiens rearranged gene for kappa immunoglobulin subgroup V kappa IV	Hs.248756	Mediterranean fever (MEFV)	Hs.173730
caspase 1, apoptosis-related cysteine protease (interleukin 1, beta, convertase)	Hs.2490		Hs.173749
EST	Hs.249031	interleukin 1 receptor accessory protein	Hs.173880
TNFRSF10A	Hs.249190	EST, Weakly similar to RL13_HUMAN 60S RIBOSOMAL PROTEIN L13 [H.sapiens]	Hs.174231
immunoglobulin lambda variable 3-10	Hs.249208	EST	Hs.174242
Homo sapiens mRNA for single-chain antibody, complete cds	Hs.249245	EST	Hs.174300
EST	Hs.250473	EST	Hs.174634
ESTs	Hs.250591	EST	Hs.174635
ESTs	Hs.250605	EST	Hs.174650
	Hs.25063	EST	Hs.174673
Human DNA sequence from clone RP1-149A16 on chromosome 22 Contains an IGLC (Immunoglobulin Lambda Chain C) pseudogene, the RFPL3 gene for Ret finger protein-like 3, the RFPL3S gene for Ret finger protein-like 3 antisense, the gene for a novel Immunoglobulin Lambda Chain V family protein, the gene for a novel protein similar to mouse RGDS (RALGDS, RALGEF, Guanine Nucleotide Dissociation Stimulator A) and rabbit oncogene RSC, the gene for a novel protein (ortholog of worm F16A11.2 and bacterial and archaea-bacterial predicted proteins), the gene for a novel protein similar to BPI (Bacterial Permeability-Increasing Protein) and rabbit LBP (Liposaccharide-Binding Protein) and the 5' part of a novel gene. Contains ESTs, STSs, GSSs and three putative CpG islands	Hs.250675	EST	Hs.174716
ACE	Hs.250711	EST	Hs.174740
TREX2	Hs.251398	EST	Hs.174778

Table 2: Candidate genes, Database mining

Human DNA sequence from clone 1170K4 on chromosome 22q12.2-13.1. Contains three novel genes, one of which codes for a Trypsin family protein with class A LDL receptor domains, and the IL2RB gene for Interleukin 2 Receptor, Beta (IL-2 Receptor, CD122 antigen). Contains a putative CpG island, ESTs, and GSSs	Hs.251417	EST	Hs.174779
EST	Hs.251539	EST, Weakly similar to RL13_HUMAN 60S RIBOSOMAL PROTEIN L13 [H.sapiens]	Hs.174780
EST	Hs.251540	(KIAA0033) for ORF, partial cds.	Hs.174905
C3	Hs.251972		Hs.175270
EST	Hs.252273	EST	Hs.175281
EST	Hs.252359	EST	Hs.175300
ESTs, Moderately similar to T2DT_HUMAN TRANSCRIPTION INITIATION FACTOR TFIID 105 KDA SUBUNIT [H.sapiens]	Hs.252867	EST	Hs.175336
EST, Moderately similar to RS2_HUMAN 40S RIBOSOMAL PROTEIN S2 [H.sapiens]	Hs.253150	EST	Hs.175388
EST	Hs.253151		Hs.175437
EST	Hs.253154	EST, Weakly similar to salivary proline-rich protein precursor [H.sapiens]	Hs.175777
EST	Hs.253165	EST	Hs.175803
EST	Hs.253166	ESTs	Hs.176337
EST	Hs.253167	EST	Hs.176374
EST	Hs.253168	EST	Hs.176380
EST	Hs.253169	EST	Hs.176404
interleukin 1 receptor, type II	Hs.25333	EST	Hs.176406
	Hs.25361	LCK	Hs.1765
EST	Hs.253742	LIG1	Hs.1770
EST	Hs.253743	EST	Hs.177012
EST, Weakly similar to AF161429_1 HSPC311 [H.sapiens]	Hs.253744	PERB11 family member in MHC class I region	Hs.17704
EST	Hs.253747	EST	Hs.177146
EST	Hs.253748	EST	Hs.177209
EST	Hs.253753		Hs.177376
EST, Moderately similar to ALU5_HUMAN ALU SUBFAMILY SC SEQUENCE CONTAMINATION WARNING ENTRY□ [H.sapiens]	Hs.254108		Hs.177461
ESTs	Hs.254948	CD99	Hs.177543
ESTs	Hs.255011	PMS2	Hs.177548
EST	Hs.255118	human calmodulin	Hs.177656
EST	Hs.255119		Hs.177712
EST	Hs.255123	Homo sapiens immunoglobulin lambda gene locus DNA, clone:288A10	Hs.178665
EST	Hs.255129		Hs.178743
EST	Hs.255134	EST	Hs.179008
EST	Hs.255135	EST	Hs.179070
EST	Hs.255139	EST	Hs.179130

Table 2: Candidate genes, Database mining

EST	Hs.255140	EST	Hs.179132
ESTs	Hs.255142		Hs.179149
EST	Hs.255150	EST	Hs.179490
EST	Hs.255152	EST	Hs.179492
ESTs	Hs.255153	promyelocytic leukemia cell mRNA, clones pHH58 and pHH81.	Hs.179735
ESTs	Hs.255157		Hs.179817
ESTs	Hs.255171	major histocompatibility complex, class II, DO beta	Hs.1802
EST	Hs.255172	HLA-DRB1	Hs.180255
EST, Moderately similar to PGTA_HUMAN RAB GERANYLGERANYLTRANSFERASE ALPHA SUBUNIT [H.sapiens]	Hs.255174	TNFRSF12	Hs.180338
EST	Hs.255177	RAD23A (HR23A)	Hs.180455
EST	Hs.255178	MKK3	Hs.180533
EST	Hs.255245	EST	Hs.180637
EST	Hs.255246	CD27	Hs.180841
EST	Hs.255249	STAT6	Hs.181015
EST	Hs.255251	TNFSF4	Hs.181097
EST	Hs.255253	immunoglobulin lambda locus	Hs.181125
EST	Hs.255254		Hs.181368
EST	Hs.255255	CD3	Hs.181392
ESTs	Hs.255256	EST	Hs.255745
EST	Hs.255330	EST	Hs.255746
EST, Weakly similar to putative G protein-coupled Receptor [H.sapiens]	Hs.255333	EST	Hs.255747
EST	Hs.255336	EST	Hs.255749
EST	Hs.255337	EST	Hs.255754
EST	Hs.255339	ESTs, Moderately similar to KIAA1271 protein [H.sapiens]	Hs.255759
EST	Hs.255340	EST	Hs.255762
EST	Hs.255341	EST	Hs.255763
ESTs	Hs.255343	EST	Hs.255764
EST	Hs.255347	EST	Hs.255766
EST	Hs.255349	EST	Hs.255767
EST	Hs.255350	EST	Hs.255768
EST	Hs.255354	EST	Hs.255769
ESTs	Hs.255359	EST	Hs.255770
ESTs	Hs.255387	EST	Hs.255772
EST	Hs.255388	EST	Hs.255777
EST	Hs.255389	EST	Hs.255778
ESTs	Hs.255390	EST	Hs.255779
EST	Hs.255392	EST	Hs.255782
EST	Hs.255444	EST	Hs.255783
EST	Hs.255446	EST	Hs.255784
EST	Hs.255448	EST	Hs.255785
ESTs	Hs.255449	EST, Weakly similar to Con1 [H.sapiens]	Hs.255788
EST	Hs.255454	EST	Hs.255791
EST	Hs.255455	EST	Hs.255794
EST	Hs.255457	EST	Hs.255796
EST	Hs.255459	EST	Hs.255797

Table 2: Candidate genes, Database mining

EST	Hs.255462	EST	Hs.255799
EST	Hs.255464	ESTs	Hs.255877
EST	Hs.255492	EST	Hs.255880
EST	Hs.255494	EST	Hs.255920
EST	Hs.255495	EST	Hs.255927
EST	Hs.255497	CD40	Hs.25648
EST	Hs.255498	interleukin enhancer binding factor 3, 90kD	Hs.256583
EST	Hs.255499	ESTs	Hs.256810
EST	Hs.255501	EST	Hs.256956
EST	Hs.255502	EST	Hs.256957
EST	Hs.255505	EST	Hs.256959
EST	Hs.255541	EST	Hs.256961
EST	Hs.255543	EST	Hs.256970
ESTs	Hs.255544	EST	Hs.256971
EST	Hs.255546	ESTs	Hs.256979
EST	Hs.255549	ESTs	Hs.257572
EST	Hs.255552	EST	Hs.257579
EST	Hs.255554	EST	Hs.257581
EST	Hs.255556	EST	Hs.257582
EST	Hs.255558	EST	Hs.257630
EST	Hs.255559	EST	Hs.257632
EST	Hs.255560	EST	Hs.257633
EST	Hs.255561	EST	Hs.257636
EST	Hs.255569	EST	Hs.257640
EST	Hs.255572	ESTs	Hs.257641
EST	Hs.255573	EST	Hs.257644
EST	Hs.255575	EST	Hs.257645
EST	Hs.255577	EST	Hs.257646
EST	Hs.255578	EST	Hs.257647
EST	Hs.255579	EST	Hs.257667
EST	Hs.255580	EST	Hs.257668
EST	Hs.255590	EST	Hs.257677
EST	Hs.255591	EST	Hs.257679
EST	Hs.255598	EST	Hs.257680
TNFRSF17	Hs.2556	ESTs	Hs.257682
EST	Hs.255600	ESTs	Hs.257684
EST	Hs.255601	EST	Hs.257687
ESTs, Highly similar to KIAA1039 protein [H.sapiens]	Hs.255603	EST	Hs.257688
EST	Hs.255614	EST	Hs.257690
EST	Hs.255615	EST	Hs.257695
ESTs	Hs.255617	EST	Hs.257697
EST	Hs.255618	EST	Hs.257705
EST	Hs.255621	EST	Hs.257706
EST	Hs.255622	EST	Hs.257709
ESTs	Hs.255625	ESTs, Moderately similar to ALU8_HUMAN ALU SUBFAMILY SX SEQUENCE CONTAMINATION WARNING ENTRY□ [H.sapiens]	Hs.257711
EST	Hs.255626	EST	Hs.257713
ESTs	Hs.255627	EST	Hs.257716
ESTs	Hs.255630	EST	Hs.257719
EST	Hs.255632	EST	Hs.257720
EST	Hs.255633	EST	Hs.257727



Table 2: Candidate genes, Database mining

EST	Hs.255634	EST	Hs.257730
EST	Hs.255635	EST	Hs.257738
EST	Hs.255637	EST	Hs.257743
ESTs	Hs.255639	ESTs	Hs.258513
EST	Hs.255641	EST	Hs.258820
EST	Hs.255644	EST	Hs.258864
EST	Hs.255645	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F	Hs.25887
EST	Hs.255646	EST	Hs.258898
EST	Hs.255647	EST	Hs.258933
EST	Hs.255648	interleukin 13 receptor, alpha 2	Hs.25954
EST	Hs.255649	Homo sapiens HSPC101 mRNA, partial cds	Hs.259683
EST	Hs.255650	EST	Hs.263695
EST	Hs.255653	ESTs	Hs.263784
EST	Hs.255657	TNFSF12	Hs.26401
EST	Hs.255661	EST	Hs.264154
ESTs	Hs.255664	EST	Hs.264654
EST	Hs.255665	CDw116b	Hs.265262
EST	Hs.255666	MHC binding factor, beta	Hs.2654
EST	Hs.255668	EST	Hs.265634
EST	Hs.255671	EST	Hs.266387
EST	Hs.255672	ESTs	Hs.268027
EST	Hs.255673	ATHS (LDLR?)	Hs.268571
EST	Hs.255674	ESTs, Highly similar to AAD18086 BAT2 [H.sapiens]	Hs.270193
EST	Hs.255675	ESTs	Hs.270198
EST	Hs.255677	ESTs	Hs.270294
EST	Hs.255679	ESTs, Weakly similar to alternatively spliced product using exon 13A [H.sapiens]	Hs.270542
EST	Hs.255681	ESTs, Moderately similar to ALU2_HUMAN ALU SUBFAMILY SB SEQUENCE CONTAMINATION WARNING ENTRY□ [H.sapiens]	Hs.270561
EST	Hs.255682	ESTs, Weakly similar to pro alpha 1(I) collagen [H.sapiens]	Hs.270564
EST	Hs.255686	ESTs, Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY□ [H.sapiens]	Hs.270578
ESTs	Hs.255687	ESTs, Moderately similar to brain-derived immunoglobulin superfamily molecule [M.musculus]	Hs.270588
EST	Hs.255688	TALL1	Hs.270737
ESTs	Hs.255689	ESTs	Hs.271206
EST	Hs.255691	MYH	Hs.271353
EST	Hs.255692	POLI (RAD30B)	Hs.271699
ESTs	Hs.255693	ADPRTL3	Hs.271742

Table 2: Candidate genes, Database mining

EST	Hs.255695	ESTs, Moderately similar to ALU8_HUMAN ALU SUBFAMILY SX SEQUENCE CONTAMINATION WARNING ENTRY [H.sapiens]	Hs.272075
EST, Highly similar to transmembrane chloride conductor protein [H.sapiens]	Hs.255697	Human DNA sequence from clone RP5- 1170K4 on chromosome 22q12.2-13.1 Contains three novel genes, one of which codes for a Trypsin family protein with class A LDL receptor domains, and the IL2RB gene for Interleukin 2 Receptor, Beta (IL-2 Receptor, CD122 antigen), a	Hs.272271
EST	Hs.255698	interleukin 1 receptor accessory protein-like 2	Hs.272354
EST	Hs.255699	Homo sapiens partial IGVH3 V3-20 gene for immunoglobulin heavy chain V region, case 1, clone 2	Hs.272355
EST	Hs.255705	Homo sapiens partial IGVH3 gene for immunoglobulin heavy chain V region, case 1, clone 16	Hs.272356
EST	Hs.255706	Homo sapiens partial IGVH3 gene for immunoglobulin heavy chain V region, case 1, clone 19	Hs.272357
EST	Hs.255708	Homo sapiens partial IGVH3 gene for immunoglobulin heavy chain V region, case 1, cell Mo IV 72	Hs.272358
EST	Hs.255710	Homo sapiens partial IGVH1 gene for immunoglobulin heavy chain V region, case 1, cell Mo V 94	Hs.272359
EST	Hs.255713	Homo sapiens partial IGVL2 gene for immunoglobulin lambda light chain V region, case 1, cell Mo V 94	Hs.272360
EST	Hs.255717	Homo sapiens partial IGVH3 gene for immunoglobulin heavy chain V region, case 1, cell Mo VI 7	Hs.272361
EST	Hs.255718	Homo sapiens partial IGVL1 gene for immunoglobulin lambda light chain V region, case 1, cell Mo VI 65	Hs.272362
EST	Hs.255721	Homo sapiens partial IGVH3 gene for immunoglobulin heavy chain V region, case 1, cell Mo VI 162	Hs.272363
ESTs	Hs.255723	Homo sapiens partial IGVH3 DP29 gene for immunoglobulin heavy chain V region, case 1, cell Mo VII 116	Hs.272364
EST	Hs.255725	Homo sapiens partial IGVH4 gene for immunoglobulin heavy chain V region, case 2, cell D 56	Hs.272365
EST	Hs.255726	Homo sapiens partial IGVH3 gene for immunoglobulin heavy chain V region, case 2, cell E 172	Hs.272366
EST	Hs.255727	interleukin 20	Hs.272373

Table 2: Candidate genes, Database mining

EST	Hs.255736	Human DNA sequence from clone RP1-149A16 on chromosome 22 Contains an IGLC (Immunoglobulin Lambda Chain C) pseudogene, the RFPL3 gene for Ret finger protein-like 3, the RFPL3S gene for Ret finger protein-like 3 antisense, the gene for a novel Immunoglobulin Lambda Chain V family protein, the gene for a novel protein similar to mouse RGDS (RALGDS, RALGEF, Guanine Nucleotide Dissociation Stimulator A) and rabbit oncogene RSC, the gene for a novel protein (ortholog of worm F16A11.2 and bacterial and archaea-bacterial predicted proteins), the gene for a novel protein similar to BPI (Bacterial Permeability-Increasing Protein) and rabbit LBP (Liposaccharide-Binding Protein) and the 5' part of a novel gene. Contains ESTs, STSs, GSSs and three putative CpG islands	Hs.272521
EST	Hs.255740	TdT	Hs.272537
EST	Hs.255742	ret finger protein-like 3 antisense	Hs.274285
EST	Hs.255743	PRKR	Hs.274382
EST	Hs.7569	H.sapiens immunoglobulin epsilon chain	Hs.274600
SMAD4	Hs.75862	EST, Weakly similar to HLA-DQ alpha chain [H.sapiens]	Hs.275720
Homo sapiens splicing factor, arginine/serine-rich 4 (SFRS4) mRNA.	Hs.76122	EST, Weakly similar to RL13_HUMAN 60S RIBOSOMAL PROTEIN L13 [H.sapiens]	Hs.276279
thymosin beta-10	Hs.76293	EST	Hs.276341
CD63	Hs.76294	EST	Hs.276342
AIF1	Hs.76364	EST, Weakly similar to RL13_HUMAN 60S RIBOSOMAL PROTEIN L13 [H.sapiens]	Hs.276353
phospholipase A2, group IIA (platelets, synovial fluid),	Hs.76422	EST	Hs.276774
CES1	Hs.76688	EST	Hs.276819
ubiquitin conjugating enzyme	Hs.76932	EST	Hs.276871
Homo sapiens KIAA0963 protein (KIAA0963), mRNA.	Hs.7724	EST, Weakly similar to FBRL_HUMAN FIBRILLARIN [H.sapiens]	Hs.276872
Homo sapiens fragile histidine triad gene (FHIT) mRNA.	Hs.77252	EST	Hs.276887
PAF-AH	Hs.77318	EST	Hs.276902
Mig	Hs.77367	EST	Hs.276917
DDB2	Hs.77602	EST	Hs.276918
ATR	Hs.77613	EST, Weakly similar to RL13_HUMAN 60S RIBOSOMAL PROTEIN L13 [H.sapiens]	Hs.276938
XPB (ERCC3)	Hs.77929	EST	Hs.277051
PNKP	Hs.78016	EST	Hs.277052
C7	Hs.78065	EST, Moderately similar to RL13_HUMAN 60S RIBOSOMAL PROTEIN L13 [H.sapiens]	Hs.277236

Table 2: Candidate genes, Database mining

Homo sapiens small nuclear RNA activating complex, polypeptide 2, 45kD (SNAPC2) mRNA.	Hs.78403	EST, Moderately similar to DEAD Box Protein 5 [H.sapiens]	Hs.277237
	Hs.78465	EST	Hs.277238
sphingolipid activator protein / cerebroside sulfate activator protein	Hs.78575	EST	Hs.277286
Homo sapiens aminolevulinate, delta-, synthase 1 (ALAS1), nuclear gene encoding mitochondrial protein, mRNA.	Hs.78712	major histocompatibility complex, class I, C	Hs.277477
tyrosine kinase with immunoglobulin and epidermal growth factor homology domains	Hs.78824	EST, Weakly similar to AF150959 1 immunoglobulin G1 Fc fragment [H.sapiens]	Hs.277591
Hsp72	Hs.78846	EST	Hs.277714
UNG	Hs.78853	EST	Hs.277715
CX3CR1	Hs.78913	EST	Hs.277716
MSH2	Hs.78934	EST	Hs.277717
CRHR1	Hs.79117	EST	Hs.277718
BCL2	Hs.79241	EST, Weakly similar to BAT3_HUMAN LARGE PROLINE-RICH PROTEIN BAT3 [H.sapiens]	Hs.277774
P-selectin	Hs.79283	EST	Hs.277975
UBE2VE (MMS2)	Hs.79300	EST	Hs.278060
retinoid X receptor, beta	Hs.79372	cytochrome P450, subfamily XX1A (steroid 21-hydroxylase, congenital adrenal hyperplasia), polypeptide 2	Hs.278430
MPG	Hs.79396	KIAA0015 gene product	Hs.278441
RPA2	Hs.79411	CD32B	Hs.278443
heat shock 70kD protein-like 1	Hs.80288	KIR2DL1	Hs.278453
FANCG (XRCC9)	Hs.8047	CD158a	Hs.278455
CD43	Hs.80738	CD24	Hs.278667
POLG	Hs.80961	HLA class II region expressed gene KE4	Hs.278721
Human CB-4 transcript of unrearranged immunoglobulin V(H)5 gene	Hs.81220	IL-17C	Hs.278911
Human L2-9 transcript of unrearranged immunoglobulin V(H)5 pseudogene	Hs.81221	HSPC048 protein (HSPC048)	Hs.278944
immunoglobulin superfamily, member 3	Hs.81234	HSPC054 protein (HSPC054)	Hs.278946
UBL1	Hs.81424	HSPC073 protein (HSPC073)	Hs.278948
PF4	Hs.81564	ESTs	Hs.279066
palmitoyl-protein thioesterase 2	Hs.81737	ESTs	Hs.279067
natural killer cell receptor, immunoglobulin superfamily member	Hs.81743	ESTs	Hs.279068
TNFRSF11B	Hs.81791	ESTs	Hs.279069
interleukin 6 signal transducer (gp130, oncostatin M receptor)	Hs.82065	ESTs	Hs.279070
CD138	Hs.82109	ESTs	Hs.279071
Human monocytic leukaemia zinc finger protein (MOZ) mRNA, complete cds.	Hs.82210	ESTs	Hs.279072
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B	Hs.82222	ESTs, Weakly similar to KIAA0052 protein [H.sapiens]	Hs.279073
HPRT	Hs.82314	ESTs	Hs.279074
Human RNA binding protein Etr-3 mRNA, complete cds.	Hs.82321	ESTs	Hs.279075
MNAT1	Hs.82380	ESTs	Hs.279076

Table 2: Candidate genes, Database mining

SMAD2	Hs.82483	ESTs	Hs.279077
CD47	Hs.82685	EST	Hs.279078
CETN2	Hs.82794	EST	Hs.279079
protein phosphatase 1, regulatory (inhibitor) subunit 11	Hs.82887	ESTs	Hs.279080
MMP1	Hs.83169	EST	Hs.279081
D3-type cyclin (CCND3)	Hs.83173	ESTs	Hs.279082
MMP3	Hs.83326	ESTs	Hs.279083
TNFSF10	Hs.83429	ESTs	Hs.279084
CD33	Hs.83731	ESTs	Hs.279085
CD102	Hs.83733	ESTs	Hs.279086
	Hs.84153	ESTs, Weakly similar to AF201422_1 splicing coactivator subunit SRm300 [H.sapiens]	Hs.279087
interleukin 8 receptor, beta	Hs.846	ESTs	Hs.279088
titin immunoglobulin domain protein (myotilin)	Hs.84665	ESTs	Hs.279089
KU80 (XRCC5)	Hs.84981		Hs.86437
Raf-1	Hs.85181		Hs.86761
major histocompatibility complex, class I, J (pseudogene)	Hs.85242	CD118 = IFNAR-2	Hs.86958
RELB	Hs.858		Hs.87113
	Hs.85923	PGHS-1	Hs.88474
ERK1	Hs.861		Hs.8882
FADD	Hs.86131	LT-b	Hs.890
MHC class I polypeptide-related sequence A	Hs.90598	EST	Hs.92440
TNF receptor-associated factor 6	Hs.90957		Hs.92460
Topo3A	Hs.91175	myosin-binding protein H	Hs.927
PARG	Hs.91390	IFN-b	Hs.93177
HLA-DPA1	Hs.914	C8A	Hs.93210
SEEK1	Hs.91600	pre-B-cell leukemia transcription factor 2	Hs.93728
POLD1	Hs.99890	Tachykinin Receptor 3	Hs.942
ALK4	Hs.99954	Homo sapiens cDNA FLJ12242 fis, clone MAMMA1001292	Hs.94810
XPD (ERCC2)	Hs.99987	CD29	Hs.287797
SCYA25 (CCL25)	Hs.50404	LIF	Hs.2250
SCYA19 (CCL19)	Hs.50002	Human IP-10	Hs.2248
TCIRG1	Hs.46465	IL-5	Hs.2247
PAF-Receptor	Hs.46	G-CSF	Hs.2233
CD26	Hs.44926	TGF-bR	Hs.220
	Hs.44865	G-CSFR	Hs.2175
REL	Hs.44313	CD15	Hs.2173
IL-17	Hs.41724	STAT1	Hs.21486
CD49d	Hs.40034	CD85	Hs.204040
CCR2	Hs.395	HCC-1	Hs.20144
	Hs.3688	Fas ligand	Hs.2007
TNF-b	Hs.36	CD28	Hs.1987
lactoferrin	Hs.347	HLA-DQA1	Hs.198253
MCP-1	Hs.340	Ku70 (G22P1)	Hs.197345
CD150	Hs.32970	PGHS-2	Hs.196384
IL-10Ra	Hs.327	CDw128	Hs.194778
EGR1	Hs.326035	IL-10	Hs.193717

Table 2: Candidate genes, Database mining

SCYC1 (XCL1)	Hs.3195	CD126	Hs.193400
HLA-DR	Hs.318720		Hs.1880
Topo I (TOP1)	Hs.317	CD98	Hs.184601
SCYA2 (MCP1)	Hs.303649		Hs.184542
HuRNPD	Hs.303627	MHC class I region ORF	Hs.1845
Human C mu gene for IgM heavy chain exons CH1-4, secretory	Hs.302063	CDw116a	Hs.182378
P1	Hs.297681	HLA-DRB5	Hs.181366
immunoglobulin lambda joining 3	Hs.289110	major histocompatibility complex, class I, A	Hs.181244
major histocompatibility complex, class II, DQ alpha 2	Hs.289095	elongation factor 1-alpha (clone CEF4)	Hs.181165
HSPCA	Hs.289088	CD119	Hs.180866
interleukin 22	Hs.287369		Hs.180804
ribosomal protein L4	Hs.286		Hs.180532
IgM	Hs.285823	POLB	Hs.180107
EST	Hs.283267	CD1d	Hs.1799
TREM1	Hs.283022	CD87	Hs.179657
HLA-DRB3	Hs.279930	minichromosome maintenance deficient (S. cerevisiae) 3	Hs.179565
LIFR	Hs.2798	RAD23B (HR23B)	Hs.178658
C4B	Hs.278625		Hs.178391
EST	Hs.276907		Hs.177781
CDw52	Hs.276770	ADPRT	Hs.177766
CD16 b	Hs.274467	IFNGR2	Hs.177559
heat shock 70kD protein 1B	Hs.274402	CD16 a	Hs.176663
Th1	Hs.273385	CD4	Hs.17483
MIP-5/HCC-2	Hs.272493	SCYC2 (XCL2)	Hs.174228
TBX21	Hs.272409	CD115	Hs.174142
Homo sapiens mRNA; cDNA DKFZp434O2417 (from clone DKFZp434O2417); partial cds	Hs.272307	CD11a	Hs.174103
Human DNA sequence from clone RP1- 108C2 on chromosome 6p12.1-21.1. Contains the MCM3 gene for minichromosome maintenance deficient (S. cerevisiae) 3 (DNA replication licensing factor, DNA polymerase alpha holoenzyme- associated protein P1, RLF beta subunit), a CACT (carnitine/acylcarnitine translocase) pseudogene, part of the gene for a PUTATIVE novel protein similar to IL17 (interleukin 17 (cytotoxic T-lymphocyte- associated serine esterase 8)) (cytotoxic T lymphocyte-associated antigen 8, CTLA8), ESTs, STSs, GSSs and a putative CpG island	Hs.272295	IL-10Rb	Hs.173936

Table 2: Candidate genes, Database mining

CD49b	Hs.271986	MSCF	Hs.173894
MCP-2	Hs.271387	TDG	Hs.173824
CD49c	Hs.265829	RAC1	Hs.173737
NBS1	Hs.25812	integrin cytoplasmic domain-associated protein 1	Hs.173274
CD120b = TNFRSF1B	Hs.256278	IL2R	Hs.1724
CDw75	Hs.2554	IL-1a	Hs.1722
CD82	Hs.25409		Hs.171872
MCP-3	Hs.251526		Hs.171118
xanthine oxidase	Hs.250	EST	Hs.171009
Human Ig rearranged lambda-chain mRNA, subgroup VL3, V-J region, partial cds	Hs.247947	EST	Hs.170934
Eotaxin-2/MPIF-2	Hs.247838	EST	Hs.170587
CTLA-4	Hs.247824	IL-9R	Hs.1702
immunoglobulin kappa variable 1-9	Hs.247792	CD45	Hs.170121
CD68	Hs.246381	TGF-a	Hs.170009
OSMR	Hs.238648	CD44	Hs.169610
CDw127	Hs.237868	Fyn	Hs.169370
transcription factor 8 (represses interleukin 2 expression)	Hs.232068	MPIF-1	Hs.169191
CD8b	Hs.2299	ICAM-1	Hs.168383
EST	Hs.229374	IL-15	Hs.168132
TRF4-1	Hs.225951	STAT5A	Hs.167503
CD3g	Hs.2259	ESTs	Hs.167208
C2	Hs.2253	ESTs	Hs.165693
	Hs.116834		Hs.135750
	Hs.117741	DINB1 (POLK)	Hs.135756
Human MHC Class I region proline rich protein mRNA, complete cds	Hs.118354	Human DNA sequence from clone RP1-238O23 on chromosome 6. Contains part of the gene for a novel protein similar to PIGR (polymeric immunoglobulin receptor), part of the gene for a novel protein similar to rat SAC (soluble adenylyl cyclase), ESTs, STSs and GSS	Hs.136141
ESTs, Weakly similar to FCE2 MOUSE LOW AFFINITY IMMUNOGLOBULIN EPSILON FC RECEPTOR [M.musculus]	Hs.118392		Hs.136254
MKK6	Hs.118825		Hs.13646
	Hs.118895		Hs.136537
H.sapiens mRNA for ITBA4 gene.	Hs.119018	Histone H1 (F3)	Hs.136857
	Hs.119057	MGMT	Hs.1384
TNFRSF10c	Hs.119684		Hs.138563
	Hs.12064	IgG	Hs.140
	Hs.120907		Hs.140478
acid phosphatase 5, tartrate resistant	Hs.1211		Hs.14070
	Hs.121297		Hs.141153

Table 2: Candidate genes, Database mining

Human immunoglobulin (mAb59) light chain V region mRNA, partial sequence	<u>Hs.121508</u>		Hs.143954
IL12Rb1	<u>Hs.121544</u>	ESTs, Moderately similar to I1BC_HUMAN INTERLEUKIN-1 BETA CONVERTASE PRECURSOR [H.sapiens]	<u>Hs.144814</u>
Human MHC class II DO-alpha mRNA, partial cds	<u>Hs.123041</u>	CHK2 (Rad53)	Hs.146329
Histone H4 (H4F2)	Hs.123053	EST	Hs.146591
TSHR	Hs.123078		Hs.147040
	<u>Hs.123445</u>	CD42b	Hs.1472
regulatory factor X; 1 (influences HLA class II expression)	<u>Hs.123638</u>		Hs.149235
CD13	<u>Hs.1239</u>	AICD	Hs.149342
IL-15R	<u>Hs.12503</u>	Homo sapiens putative tumor suppressor protein (101F6) mRNA, complete cds.	Hs.149443
RAD51L3 (RAD51D)	Hs.125244	CD49e	<u>Hs.149609</u>
CDw90	<u>Hs.125359</u>	heparan sulfate proteoglycan (HSPG) core protein	Hs.1501
LYPLA1	Hs.12540	CD107a	<u>Hs.150101</u>
ESTs, Weakly similar to AF201951 1 high affinity immunoglobulin epsilon receptor beta subunit [H.sapiens]	<u>Hs.126580</u>	ESTs, Weakly similar to I57587 MHC HLA SX-alpha [H.sapiens]	<u>Hs.150175</u>
	Hs.127128	ALK2	Hs.150402
	Hs.127444	WRN	Hs.150477
C5	<u>Hs.1281</u>	EST	Hs.150708
C8G	<u>Hs.1285</u>	XRCC4	Hs.150930
RAD54B	Hs.128501	IFN-a	<u>Hs.1510</u>
	Hs.129020	MAPK	Hs.151051
	<u>Hs.129268</u>		Hs.15200
	<u>Hs.129332</u>	immunoglobulin mu binding protein 2	<u>Hs.1521</u>
XRCC2	Hs.129727	4-1BBL	Hs.1524
potassium voltage-gated channel, Shaw-related subfamily, member 3 (KCNC3)	Hs.129738		Hs.152818
interleukin 17 receptor	<u>Hs.129751</u>	HUS1	Hs.152983
CD134	Hs.129780	SWAP70	Hs.153026
TNFRSF10d	Hs.129844	DOM-3 (C. elegans) homolog Z	<u>Hs.153299</u>
POLL	Hs.129903		Hs.153551
GADD153=growth arrest and DNA-damage inducible gene / fus-chop fusion protein	Hs.129913		Hs.15370



Table 2: Candidate genes, Database mining

solute carrier family 5 (neutral amino acid transporters, system A), member 4	<u>Hs.130101</u>	SMAD6	Hs.153863
	Hs.130232	APEXL2	Hs.154149
	Hs.13034		Hs.154198
CD30L	<u>Hs.1313</u>		Hs.154366
SCYA26 (CCL26)	Hs.131342	BCL6	Hs.155024
CD30	<u>Hs.1314</u>		Hs.155150
	Hs.131885		Hs.155402
	Hs.131887	RAIDD	Hs.155566
	Hs.13256	POLH	Hs.155573
ESTs	Hs.132775		Hs.15589
Homo sapiens (clone 3.8-1) MHC class I mRNA fragment	<u>Hs.132807</u>	Homo sapiens mRNA for KIAA0695 protein, complete cds.	Hs.155976
	Hs.13288	SNM1 (PS02)	Hs.1560
	Hs.132943	Topo2A	Hs.156346
EST	Hs.133261	ESTs, Highly similar to MHC class II antigen [H.sapiens]	<u>Hs.156811</u>
	Hs.133388	Histamine H1 receptor	<u>Hs.1570</u>
EST	Hs.133393		Hs.157118
EST	Hs.133930		Hs.157267
ESTs	Hs.133947	EST	Hs.157279
ESTs	Hs.133949	EST	Hs.157280
EST	Hs.134017	EST	Hs.157308
EST	Hs.134018	EST	Hs.157309
EST	Hs.134590	EST	Hs.157310
	Hs.135135	EST	Hs.157311
immunoglobulin superfamily, member 6	<u>Hs.135194</u>	ESTs	Hs.157344
	Hs.135570	ret finger protein-like 2	<u>Hs.157427</u>
Homo sapiens arrestin, beta 2 (ARRB2) mRNA.	Hs.18142		Hs.214956
myeloperoxidase	Hs.1817	WASP	Hs.2157
APO-1	Hs.182359	CD88	Hs.2161
TRAP1	Hs.182366		Hs.21618
	Hs.182594	ring finger protein 5	<u>Hs.216354</u>
TNFRSF16	Hs.1827	class II cytokine receptor ZCYTOR7	<u>Hs.21814</u>
	Hs.182817		Hs.219149
regulatory factor X, 4 (influences HLA class II expression)	<u>Hs.183009</u>	cyclophilin-related protein	Hs.219153
Homo sapiens killer cell lectin-like receptor F1 (KLRF1), mRNA.	Hs.183125	Homo sapiens mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase (MGAT2) mRNA.	Hs.219479
	Hs.183171	perforin	Hs.2200
EST	Hs.183386		Hs.220154
	Hs.183656	ESTs, Weakly similar to FCE2 MOUSE LOW AFFINITY IMMUNOGLOBULIN EPSILON FC RECEPTOR [M.musculus]	<u>Hs.220649</u>
	Hs.18368		Hs.220868

Table 2: Candidate genes, Database mining

advanced glycosylation end product-specific receptor	<u>Hs.184</u>		Hs.220960
CDK7	Hs.184298	immunoglobulin superfamily, member 1	<u>Hs.22111</u>
	Hs.184376		Hs.221539
CCR4	<u>Hs.184926</u>	ESTs	Hs.221694
EST, Weakly similar to A27307 proline-rich phosphoprotein [H.sapiens]	Hs.185463		Hs.222921
EST	Hs.185498		Hs.222942
EST, Weakly similar to B39066 proline-rich protein 15 - rat [R.norvegicus]	Hs.186243	EST	Hs.223520
EST, Weakly similar to salivary proline-rich protein [R.norvegicus]	Hs.186265	EST	Hs.223935
EST	Hs.187200	EST, Moderately similar to SMO_HUMAN SMOOTHENED HOMOLOG PRECURSOR [H.sapiens]	Hs.224178
	Hs.188048	Blk	Hs.2243
EST	Hs.188075	EST	Hs.224344
EST	Hs.188194	EST	Hs.224408
EST	Hs.188300	EST	Hs.224409
	Hs.190251	CPN1	Hs.2246
	Hs.19056	MMP7	Hs.2256
EST	Hs.190831	MMP10	Hs.2258
MAPK8	Hs.190913	CCR9	<u>Hs.225946</u>
EST	Hs.190921	toll-like receptor 6 (TLR6)	Hs.227105
EST, Weakly similar to S39206 hypothetical protein 1 - rat [R.norvegicus]	Hs.190924	XPR1	Hs.227656
GTF2H2	Hs.191356	CD49f	<u>Hs.227730</u>
	Hs.191367		Hs.22790
	Hs.191914	EST	Hs.228337
ESTs, Weakly similar to immunoglobulin superfamily member [D.melanogaster]	<u>Hs.192078</u>	EST, Highly similar to 1409218A elastase [H.sapiens]	Hs.228525
XPA	Hs.192803	EST	Hs.228528
CD89	<u>Hs.193122</u>	EST, Moderately similar to R37A_HUMAN 60S RIBOSOMAL PROTEIN L37A [H.sapiens]	Hs.228874
DFFRY	Hs.193145	EST	Hs.228891
CD35	<u>Hs.193716</u>	EST	Hs.228926
REV7 (MAD2L2)	Hs.19400	EST	Hs.229071
	Hs.194082	EST	Hs.229405
	Hs.194110	EST	Hs.229494
BRCA1	Hs.194143	EST, Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY [H.sapiens]	Hs.229560
ESTs, Moderately similar to MHC Class I region proline rich protein [H.sapiens]	<u>Hs.194249</u>	EST, Moderately similar to AAD18086 BAT2 [H.sapiens]	Hs.229901
	Hs.194534	EST	Hs.229902
Topo3B	Hs.194685	EST, Highly similar to 1409218A elastase [H.sapiens]	Hs.230053

Table 2: Candidate genes, Database mining

Human DNA sequence from clone 1170K4 on chromosome 22q12.2-13.1. Contains three novel genes, one of which codes for a Trypsin family protein with class A LDL receptor domains, and the IL2RB gene for Interleukin 2 Receptor, Beta (IL-2 Receptor, CD122 antigen). Contains a putative CpG island, ESTs, and GSSs	<u>Hs.194750</u>	RAD51	Hs.23044
major histocompatibility complex, class II, DP alpha 2 (pseudogene)	<u>Hs.194764</u>	EST, Moderately similar to A54746 adhalin precursor - human [H.sapiens]	Hs.230485
Human DNA sequence from clone RP11-367J7 on chromosome 1. Contains (part of) two or more genes for novel Immunoglobulin domains containing proteins, a SON DNA binding protein (SON) pseudogene, a voltage-dependent anion channel 1 (VDAC1) (plasmalemmal porin) pseudogene, ESTs, STSs and GSSs	<u>Hs.194976</u>	EST	Hs.230691
	<u>Hs.195447</u>	EST	Hs.230775
PDGF-B	<u>Hs.1976</u>	EST	Hs.230805
CXCR3	<u>Hs.198252</u>	EST	Hs.230848
	<u>Hs.198694</u>	EST	Hs.230862
	<u>Hs.198738</u>	EST	Hs.230874
MAR/SAR DNA binding protein (SATB1)	<u>Hs.198822</u>	EST	Hs.230931
CHUK	<u>Hs.198998</u>	EST	Hs.231031
hemochromatosis	<u>Hs.20019</u>	EST	Hs.231261
T-cell receptor active beta-chain	<u>Hs.2003</u>	EST	Hs.231284
APO-I	<u>Hs.2007</u>	EST	Hs.231285
RXRA	<u>Hs.20084</u>	EST	Hs.231292
EST	<u>Hs.200876</u>	EST, Weakly similar to putative mitochondrial outer membrane protein import receptor [H.sapiens]	Hs.231512
	<u>Hs.201194</u>	Homo sapiens mRNA for KIAA0529 protein, partial cds.	Hs.23168
TCRd	<u>Hs.2014</u>	EST	Hs.235042
ESTs, Highly similar to TNF-alpha converting enzyme [H.sapiens]	<u>Hs.202407</u>	EST	Hs.235826
	<u>Hs.202608</u>	TREX1 (Dnase III)	Hs.23595
Integrin b1 = CD29	<u>Hs.202661</u>	EST	Hs.237126
thrombomodulin	<u>Hs.2030</u>		Hs.23860
	<u>Hs.203064</u>	RAD9	Hs.240457
	<u>Hs.203184</u>	1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha)	<u>Hs.240534</u>
	<u>Hs.203584</u>	EST	Hs.240635
EST	<u>Hs.204477</u>	EST, Weakly similar to ALU8_HUMAN ALU SUBFAMILY SX SEQUENCE CONTAMINATION WARNING ENTRY [H.sapiens]	Hs.241136

Table 2: Candidate genes, Database mining

EST	Hs.204480	TNFSF15	Hs.241382
EST, Weakly similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens]	Hs.204483	interleukin 1 receptor accessory protein-like 1	Hs.241385
ESTs	Hs.204588	RANTES	Hs.241392
EST, Weakly similar to salivary proline-rich protein 1 [H.sapiens]	Hs.204598	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A	Hs.2414
EST	Hs.204610	POLQ	Hs.241517
ESTs	Hs.204703	TNF-a	Hs.241570
ESTs	Hs.204751	Homo sapiens genes encoding RNCC protein, DDAH protein, Ly6-C protein, Ly6- D protein and immunoglobulin receptor	Hs.241586
EST	Hs.204760	megakaryocyte-enhanced gene transcript 1 protein	Hs.241587
EST	Hs.204771	EST, Moderately similar to 1409218A elastase [H.sapiens]	Hs.241981
ESTs	Hs.204873	EST	Hs.241982
ESTs	Hs.204932	EST	Hs.241983
EST	Hs.204954	EST	Hs.242605
EST	Hs.205158	ADPRT2	Hs.24284
ESTs	Hs.205159	EST	Hs.243284
ESTs	Hs.205327	EST	Hs.243286
CD39	Hs.205353	ESTs	Hs.243288
ESTs	Hs.205435	SCYB14	Hs.24395
EST	Hs.205438	EST	Hs.244046
EST, Highly similar to elastic titin [H.sapiens]	Hs.205452	EST	Hs.244048
EST	Hs.205456	EST	Hs.244049
MRE11A	Hs.20555	EST	Hs.244050
HLA class II region expressed gene KE2	Hs.205736	RFXAP	Hs.24422
EST	Hs.205788		Hs.24435
ESTs	Hs.205789	STAT5B	Hs.244613
EST	Hs.205803	EST	Hs.244666
EST	Hs.205815	EST	Hs.245586
ESTs	Hs.206160	CDw108	Hs.24640
	Hs.206654	ESTs	Hs.246796
EST	Hs.207060	dimethylarginine dimethylaminohydrolase 2	Hs.247362
EST	Hs.207062	Homo sapiens clone mcg53-54 immunoglobulin lambda light chain variable region 4a mRNA, partial cds	Hs.247721
EST	Hs.207063	Homo sapiens ELK1 pseudogene (ELK2) and immunoglobulin heavy chain gamma pseudogene (IGHGP)	Hs.247775
EST	Hs.207473	immunoglobulin kappa variable 1/OR2-108	Hs.247804
ESTs	Hs.207474	butyrophilin-like 2 (MHC class II associated)	Hs.247808

Table 2: Candidate genes, Database mining

ESTs	Hs.207971	Homo sapiens genes encoding RNCC protein, DDAH protein, Ly6-C protein, Ly6-D protein and immunoglobulin receptor	Hs.247879
EST	Hs.207993	Histamine H2 receptor	Hs.247885
EST	Hs.208153	Human anti-streptococcal/anti-myosin immunoglobulin lambda light chain variable region mRNA, partial cds	Hs.247898
EST, Weakly similar to S10889 proline-rich protein - human [H.sapiens]	Hs.208667	Homo sapiens isolate donor Z clone Z55K immunoglobulin kappa light chain variable region mRNA, partial cds	Hs.247907
ESTs	Hs.209142	Homo sapiens isolate donor D clone D103L immunoglobulin lambda light chain variable region mRNA, partial cds	Hs.247908
EST	Hs.209261	Homo sapiens isolate 459 immunoglobulin lambda light chain variable region (IGL) gene, partial cds	Hs.247909
ESTs	Hs.209306	Homo sapiens isolate donor N clone N88K immunoglobulin kappa light chain variable region mRNA, partial cds	Hs.247910
	Hs.209362	Homo sapiens isolate donor N clone N8K immunoglobulin kappa light chain variable region mRNA, partial cds	Hs.247911
EST, Weakly similar to FCEB MOUSE HIGH AFFINITY IMMUNOGLOBULIN EPSILON RECEPTOR BETA-SUBUNIT [M.musculus]	Hs.209540	Human Ig rearranged mu-chain V-region gene, subgroup VH-III, exon 1 and 2	Hs.247923
EST	Hs.209913	Epsilon, IgE=membrane-bound IgE, epsilon m/s isoform {alternative splicing} [human, mRNA Partial, 216 nt]	Hs.247930
EST	Hs.209989	H.sapiens (T1.1) mRNA for IG lambda light chain	Hs.247949
EST	Hs.210049	H.sapiens mRNA for Ig light chain, variable region (ID:CLL001VL)	Hs.247950
EST, Moderately similar to probable sodium potassium ATPase gamma chain [H.sapiens]	Hs.210276	Human interleukin 2 gene, clone pATtacIL-2C/2TT, complete cds, clone pATtacIL-2C/2TT	Hs.247956
EST, Weakly similar to N-WASP [H.sapiens]	Hs.210306	pre-B lymphocyte gene 1	Hs.247979
EST	Hs.210307	Human immunoglobulin heavy chain variable region (V4-31) gene, partial cds	Hs.247987
EST	Hs.210385	Human immunoglobulin heavy chain variable region (V4-30.2) gene, partial cds	Hs.247989
interleukin 21 receptor	Hs.210546	Human DNA sequence from phage LAW2 from a contig from the tip of the short arm of chromosome 16, spanning 2Mb of 16p13.3 Contains Interleukin 9 receptor pseudogene	Hs.247991
EST	Hs.210727	Homo sapiens HLA class III region containing NOTCH4 gene, partial sequence, homeobox PBX2 (HPBX) gene, receptor for advanced glycosylation end products (RAGE) gene, complete cds, and 6 unidentified cds	Hs.247993

Table 2: Candidate genes, Database mining

	Hs.211266	Homo sapiens immunoglobulin lambda gene locus DNA, clone:61D6	Hs.248010
SMAD3	Hs.211578	immunoglobulin lambda variable 9-49	Hs.248011
MHC class I polypeptide-related sequence B	Hs.211580	immunoglobulin lambda variable 4-3	Hs.248012
ESTs, Weakly similar to CA1B_MOUSE COLLAGEN ALPHA 1(XI) CHAIN PRECURSOR [M.musculus]	Hs.211744	H.sapiens mRNA for IgG lambda light chain V-J-C region (clone Tgl11)	Hs.248030
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3E	Hs.212414	Human immunoglobulin (mAb56) light chain V region mRNA, partial sequence	Hs.248043
TNFRSF18	Hs.212680	Homo sapiens lymphocyte-predominant Hodgkin's disease case #4 immunoglobulin heavy chain gene, variable region, partial cds	Hs.248077
Homo sapiens general transcription factor 2-I pseudogene 1 (GTF2IP1) mRNA.	Hs.212939	Homo sapiens lymphocyte-predominant Hodgkin's disease case #7 immunoglobulin heavy chain gene, variable region, partial cds	Hs.248078
RAD18	Hs.21320	Homo sapiens clone ASMneg1-b3 immunoglobulin lambda chain VJ region, (IGL) mRNA, partial cds	Hs.248083
	Hs.213226	OSM	Hs.248156
ESTs	Hs.279090		Hs.29128
ESTs	Hs.279091	Homo sapiens clone 24659 mRNA sequence.	Hs.29206
ESTs	Hs.279092	EST	Hs.292235
EST	Hs.279093	EST	Hs.292450
ESTs	Hs.279094	EST, Moderately similar to Ewing sarcoma breakpoint region 1, isoform EWS [H.sapiens]	Hs.292455
ESTs	Hs.279095	EST	Hs.292461
ESTs, Weakly similar to AF279265_1 putative anion transporter 1 [H.sapiens]	Hs.279096	ESTs	Hs.292501
ESTs	Hs.279097	EST	Hs.292516
EST	Hs.279098	EST	Hs.292517
ESTs	Hs.279099	EST	Hs.292520
ESTs	Hs.279100	EST, Moderately similar to RL13_HUMAN 60S RIBOSOMAL PROTEIN L13 [H.sapiens]	Hs.292540
ESTs	Hs.279101	EST	Hs.292545
ESTs	Hs.279102	EST, Weakly similar to ORFII [H.sapiens]	Hs.292704
ESTs	Hs.279103	EST	Hs.292761
ESTs	Hs.279104	ESTs	Hs.292803
ESTs	Hs.279105	ESTs	Hs.293183
ESTs	Hs.279106	ESTs	Hs.293280
EST	Hs.279107	ESTs	Hs.293281
ESTs	Hs.279108	ESTs, Moderately similar to 0501254A protein Tro alpha1 H,myeloma [H.sapiens]	Hs.293441
EST	Hs.279109	MMP13	Hs.2936
ESTs	Hs.279110	major histocompatibility complex, class II, DR beta 4	Hs.293934

Table 2: Candidate genes, Database mining

ESTs	Hs.279111	Human MHC class III serum complement factor B, mRNA	Hs.294163
ESTs	Hs.279112	EST	Hs.294315
EST	Hs.279113	EST	Hs.294316
ESTs	Hs.279114	EST, Highly similar to Y196_HUMAN HYPOTHETICAL PROTEIN KIAA0196□ [H.sapiens]	Hs.295582
ESTs	Hs.279115	EST	Hs.295583
ESTs	Hs.279116	EST, Highly similar to ZN07_HUMAN ZINC FINGER PROTEIN 7 [H.sapiens]	Hs.295584
ESTs	Hs.279117	EST	Hs.295585
ESTs	Hs.279118	EST	Hs.295586
ESTs	Hs.279119	EST, Moderately similar to angiotensin converting enzyme [H.sapiens]	Hs.295595
ESTs	Hs.279120	EST	Hs.295621
ESTs	Hs.279121	EST	Hs.295622
ESTs	Hs.279122	EST, Moderately similar to RL13_HUMAN 60S RIBOSOMAL PROTEIN L13 [H.sapiens]	Hs.295629
ESTs	Hs.279123	EST	Hs.295724
ESTs	Hs.279124	EST	Hs.296064
ESTs	Hs.279125	EST, Moderately similar to IDS_HUMAN. IDURONATE 2-SULFATASE PRECURSOR□ [H.sapiens]	Hs.296070
ESTs	Hs.279126	EST	Hs.296073
ESTs	Hs.279127	interleukin enhancer binding factor 1	Hs.296281
EST	Hs.279128	similar to rat integral membrane glycoprotein POM121	Hs.296429
ESTs, Weakly similar to aconitase [H.sapiens]	Hs.279129	Human histocompatibility antigen mrna clone phla-1	Hs.296476
ESTs	Hs.279130	immunoglobulin lambda-like polypeptide 3	Hs.296552
ESTs	Hs.279131	RFXANK	Hs.296776
ESTs	Hs.279132		Hs.29826
ESTs	Hs.279133		Hs.29871
ESTs, Weakly similar to PYRG_HUMAN CTP SYNTHASE [H.sapiens]	Hs.279134	MEKK1	Hs.298727
ESTs, Weakly similar to RIR1_HUMAN RIBONUCLEOSIDE-DIPHOSPHATE REDUCTASE M1 CHAIN [H.sapiens]	Hs.279135		Hs.30029
ESTs	Hs.279136	CD3e	Hs.3003
ESTs	Hs.279137	ESTs, Weakly similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens]	Hs.300697
ESTs	Hs.279138	Homo sapiens clone BCSynL38 immunoglobulin lambda light chain variable region mRNA, partial cds	Hs.300865
ESTs	Hs.279139	FCGR3A	Hs.300983
ESTs	Hs.279140	Homo sapiens DP47 gene for immunoglobulin heavy chain, partial cds	Hs.301365
ESTs	Hs.279141	PMS2L9	Hs.301862

Table 2: Candidate genes, Database mining

EST	Hs.279142	CCR1	Hs.301921
ESTs	Hs.279143	FANCE	Hs.302003
ESTs	Hs.279144	interleukin 21	Hs.302014
ESTs	Hs.279145	interleukin 17E	Hs.302036
ESTs	Hs.279146		Hs.30446
EST	Hs.279147	EST	Hs.30709
ESTs	Hs.279148	EST	Hs.30731
ESTs	Hs.279149	MHC class II transactivator	Hs.3076
ESTs	Hs.279150	EST	Hs.30766
ESTs, Weakly similar to PUR2_HUMAN TRIFUNCTIONAL PURINE BIOSYNTHETIC PROTEIN ADENOSINE 3 [H.sapiens]	Hs.279151	EST	Hs.30793
ESTs	Hs.279152		Hs.30818
ESTs	Hs.279153	CD97	Hs.3107
ESTs	Hs.279154	RAR-beta2	Hs.31408
ESTs	Hs.279155	RECQL4	Hs.31442
ESTs	Hs.279156	XPC	Hs.320
ESTs	Hs.279157	ERK2	Hs.324473
ESTs	Hs.279158		Hs.32456
ESTs	Hs.279159	MSH6	Hs.3248
ESTs	Hs.279160	ribosomal protein L23-related	Hs.3254
ESTs, Weakly similar to IDHA_HUMAN ISOCITRATE DEHYDROGENASE [H.sapiens]	Hs.279161	PI3CG	Hs.32942
ESTs	Hs.279162	CSA (CKN1)	Hs.32967
ESTs	Hs.279163	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F	Hs.32981
ESTs	Hs.279164	BRCA2	Hs.34012
ESTs	Hs.279165	MEK1	Hs.3446
ESTs	Hs.279166	STRL33 (CXCR6)	Hs.34526
ESTs	Hs.279167	MBD4	Hs.35947
ESTs	Hs.279168	immunoglobulin (CD79A) binding protein 1	Hs.3631
EST	Hs.279169	CD7	Hs.36972
ESTs	Hs.279170	IFNA1	Hs.37026
ESTs	Hs.279171	PDGF-A	Hs.37040
EST	Hs.279172	immunoglobulin kappa variable 1-13	Hs.37089
ESTs	Hs.279174	DMC1	Hs.37181
ESTs	Hs.279175		Hs.37892
CD86	Hs.27954	Homo sapiens suppressor of variegation 3-9 (Drosophila) homolog (SUV39H) mRNA, and translated products.	Hs.37936
CGI-81 protein	Hs.279583	C8B	Hs.38069
ESTs	Hs.279821	MTH1 (NUDT1)	Hs.388
ESTs	Hs.279823	Adrenomedullin	Hs.394
ESTs, Weakly similar to IRE1_HUMAN IRON-RESPONSIVE ELEMENT BINDING PROTEIN 1 [H.sapiens]	Hs.279824		Hs.39441
ESTs	Hs.279825	CD66b	Hs.41
ESTs	Hs.279826	RAD50	Hs.41587



Table 2: Candidate genes, Database mining

MLH3	Hs.279843	CD94	Hs.41682
TNFRSF14	Hs.279899	HLJ1	Hs.41693
RPA4	Hs.283018	ESM1	Hs.41716
EST	Hs.283165	MSH3	Hs.42674
EST	Hs.283166	cAMP responsive element binding protein-like 1	Hs.42853
EST	Hs.283167	IKBKG	Hs.43505
EST	Hs.283168	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA.	Hs.43543
ESTs	Hs.283169	LEU2	Hs.43628
EST	Hs.283245	Homo sapiens immunoglobulin lambda gene locus DNA, clone:288A10	Hs.43834
EST	Hs.283247	SIRT2	Hs.44017
ESTs	Hs.283248		Hs.44087
EST	Hs.283249	TREM2	Hs.44234
EST	Hs.283250	serine/threonine kinase 19	Hs.444
EST	Hs.283251		Hs.44512
EST	Hs.283252		Hs.44628
EST	Hs.283253		Hs.45063
EST	Hs.283254	LTC4 synthase	Hs.456
EST	Hs.283255	FUT2	Hs.46328
EST	Hs.283256	CCR6	Hs.46468
EST	Hs.283257	POLM	Hs.46964
EST	Hs.283258	EXO1 (HEX1)	Hs.47504
ESTs	Hs.283259	FEN1 (Dnase IV)	Hs.4756
EST	Hs.283261		Hs.4863
EST	Hs.283262	golgin-165	Hs.4953
EST	Hs.283263		Hs.50102
EST	Hs.283264	ATP-binding cassette, sub-family B (MDR/TAP), member 3	Hs.502
EST	Hs.283266		Hs.5057
ESTs	Hs.283268	corneodesmosin	Hs.507
EST	Hs.283269	Histone H2 (H2AFP)	Hs.51011
EST, Weakly similar to AF189011_1 ribonuclease III [H.sapiens]	Hs.283270	CCNH	Hs.514
EST	Hs.283271	EST	Hs.5146
EST	Hs.283272	SMUG1	Hs.5212
EST	Hs.283274	ABH (ALKB)	Hs.54418
EST	Hs.283275	CCR5	Hs.54443
EST	Hs.283276	CD81	Hs.54457
ESTs, Weakly similar to S32605 collagen alpha 3(VI) chain - mouse [M.musculus]	Hs.283392	TNFRSF13	Hs.54673
ESTs	Hs.283433	PRPS1	Hs.56
ESTs	Hs.283434		Hs.56156
ESTs	Hs.283438		Hs.56265
ESTs	Hs.283442	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2	Hs.56328
ESTs	Hs.283443	EST	Hs.5656
ESTs	Hs.283456		Hs.56845
ESTs	Hs.283457	MLH1	Hs.57301
ESTs, Weakly similar to similar to collagen [C.elegans]	Hs.283458	testis specific basic protein	Hs.57692

Table 2: Candidate genes, Database mining

ESTs	Hs.283459	ESTs	Hs.57841
ESTs	Hs.283460	Human 6Ckine	Hs.57907
ESTs	Hs.283462	EST	Hs.5816
ESTs	Hs.283463	Homo sapiens cell growth regulatory with ring finger domain (CGR19) mRNA.	Hs.59106
ESTs	Hs.283496	ERCC1	Hs.59544
ESTs	Hs.283497		Hs.61558
ESTs	Hs.283499	Homo sapiens GPI transamidase mRNA, complete cds.	Hs.62187
ESTs	Hs.283500		Hs.62699
ESTs, Weakly similar to ORF YDL014w [S.cerevisiae]	Hs.283504		Hs.63913
ESTs, Weakly similar to S09646 collagen alpha 2(VI) chain precursor, medium splice form - human [H.sapiens]	Hs.283505	Homo sapiens chloride intracellular channel 3 (CLIC3), mRNA.	Hs.64746
ESTs	Hs.283608	FANCF	Hs.65328
CD42c	Hs.283743		Hs.6544
tenascin XA	Hs.283750	interleukin 1 receptor-like 1	Hs.66
immunoglobulin kappa variable 1D-8	Hs.283770	CD38	Hs.66052
protocadherin gamma subfamily A, 2 (PCDHGA2)	Hs.283801		Hs.6607
Homo sapiens mRNA; cDNA DKFZp762F0616 (from clone DKFZp762F0616)	Hs.283849	RAD54L	Hs.66718
Homo sapiens clone bsmneg3-t7 immunoglobulin lambda light chain VJ region, (IGL) mRNA, partial cds	Hs.283876	SCYA17 (CCL17)	Hs.66742
Homo sapiens transgenic-JHD mouse #2357 immunoglobulin heavy chain variable region (IgG VH251) mRNA, partial cds	Hs.283878	IL-12	Hs.673
Homo sapiens clone N97 immunoglobulin heavy chain variable region mRNA, partial cds	Hs.283882	Human IL-12 p40	Hs.674
Homo sapiens clone case06H1 immunoglobulin heavy chain variable region gene, partial cds	Hs.283924	LILRB4	Hs.67846
Homo sapiens HSPC077 mRNA, partial cds	Hs.283929	interleukin 5 receptor, alpha	Hs.68876
Homo sapiens HSPC088 mRNA, partial cds	Hs.283931		Hs.6891
Homo sapiens HSPC097 mRNA, partial cds	Hs.283933		Hs.69233
Homo sapiens HSPC102 mRNA, partial cds	Hs.283934	FUT1	Hs.69747
Homo sapiens HSPC107 mRNA, partial cds	Hs.283935	B-factor, properdin	Hs.69771
CMKRL1	Hs.28408		Hs.70333
FANCA	Hs.284153		Hs.71618
Homo sapiens immunoglobulin mu chain antibody MO30 (IgM) mRNA, complete cds	Hs.284277	RAD1	Hs.7179
gamma-glutamyltransferase 1	Hs.284380	interleukin 19	Hs.71979

Table 2: Candidate genes, Database mining

putative human HLA class II associated protein I	<u>Hs.285013</u>	MEK2	Hs.72241
interleukin 13 receptor, alpha 1	<u>Hs.285115</u>	IL-7	<u>Hs.72927</u>
CDw131	<u>Hs.285401</u>	STAT2	<u>Hs.72988</u>
Homo sapiens VH2-D3.10-JH5b gene for immunoglobulin heavy chain variable region	<u>Hs.287403</u>	CD42d	<u>Hs.73734</u>
Homo sapiens cDNA: FLJ22546 fis, clone HSI00290	<u>Hs.287697</u>	MIF	<u>Hs.73798</u>
Homo sapiens cDNA: FLJ23140 fis, clone LNG09065	<u>Hs.287728</u>	ECP	<u>Hs.73839</u>
H.sapiens mRNA for HLA-C alpha chain (Cw*1701)	<u>Hs.287811</u>	CPN2	<u>Hs.73858</u>
Homo sapiens clone ASMneg1-b1 immunoglobulin lambda chain VJ region, (IGL) mRNA, partial cds	<u>Hs.287815</u>	MMP8	<u>Hs.73862</u>
Homo sapiens clone CPRF1-T2 immunoglobulin lambda chain VJ region, (IGL) mRNA, partial cds	<u>Hs.287816</u>	HLA-G histocompatibility antigen, class I, G	<u>Hs.73885</u>
EST	<u>Hs.287817</u>	TNFRSF9	<u>Hs.73895</u>
myelin protein zero-like 1	<u>Hs.287832</u>	IL-4	<u>Hs.73917</u>
immunoglobulin lambda-like polypeptide 1	<u>Hs.288168</u>	HLA-DQB1	<u>Hs.73931</u>
cathepsinB	<u>Hs.288181</u>	RAG1	<u>Hs.73958</u>
G18.2 protein	<u>Hs.288316</u>	LAG-3	<u>Hs.74011</u>
ESTs	<u>Hs.288403</u>		<u>Hs.7402</u>
EST	<u>Hs.288431</u>	CD163	<u>Hs.74076</u>
Homo sapiens partial IGVH2 gene for immunoglobulin heavy chain V region, case 2, cell B 45	<u>Hs.288553</u>	immunoglobulin superfamily, member 2	<u>Hs.74115</u>
polymeric immunoglobulin receptor	<u>Hs.288579</u>	CD158b	<u>Hs.74134</u>
Human immunoglobulin heavy chain variable region (V4-4) gene, partial cds	<u>Hs.288711</u>		<u>Hs.7434</u>
Human immunoglobulin heavy chain variable region (V4-4b) gene, partial cds	<u>Hs.289036</u>	TCRa	<u>Hs.74647</u>
	<u>Hs.28921</u>	human immunodeficiency virus type I enhancer-binding protein 2	<u>Hs.75063</u>
EST	<u>Hs.289577</u>	MLN50	<u>Hs.75080</u>
EST	<u>Hs.289836</u>	lysyl hydroxylase (PLOD)	<u>Hs.75093</u>
EST	<u>Hs.289878</u>	TAK1	<u>Hs.7510</u>
GSN	<u>Hs.290070</u>	Homo sapiens transcription factor 6-like 1 (mitochondrial transcription factor 1-like) (TCF6L1) mRNA.	<u>Hs.75133</u>
EST, Weakly similar to unnamed protein product [H.sapiens]	<u>Hs.290133</u>	UBE2N (UBC13, BTG1)	<u>Hs.75355</u>
EST	<u>Hs.290227</u>		<u>Hs.75450</u>
ESTs	<u>Hs.290315</u>	HSPA2	<u>Hs.75452</u>
EST	<u>Hs.290339</u>	CD151	<u>Hs.75564</u>
EST	<u>Hs.290340</u>	RELA	<u>Hs.75569</u>
	<u>Hs.29055</u>	CD122	<u>Hs.75596</u>
EST	<u>Hs.291125</u>	CD14	<u>Hs.75627</u>
EST	<u>Hs.291126</u>	nuclear factor erythroid 2 isoform f=basic leucine zipper protein {alternatively spliced	<u>Hs.75643</u>
CD91= LRP	<u>Hs.89137</u>	C1QB	<u>Hs.8986</u>

Table 2: Candidate genes, Database mining

XPF (ERCC4)	Hs.89296	superkiller viralicidic activity 2 (S. cerevisiae homolog)-like	Hs.89864
Carbonic anhydrase IV	Hs.89485	EST	Hs.90165
CETP	Hs.89538	EST	Hs.90171
RAD52	Hs.89571	GTF2H3	Hs.90304
GTF2H1	Hs.89578	protein tyrosine kinase related sequence	Hs.90314
Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide	Hs.897		Hs.90463
transcript ch138	Hs.94881	SGRF protein, Interleukin 23 p19 subunit	Hs.98309
	Hs.9578	XRCC1	Hs.98493
IL-9	Hs.960	Homo sapiens mRNA for KIAA0543 protein, partial cds.	Hs.98507
NFATC1	Hs.96149		Hs.9893
OGG1	Hs.96398	DIR1 protein	Hs.99134
	Hs.96499	XRCC3	Hs.99742
NFKBIB	Hs.9731	Elastase(leukocyte)	Hs.99863
XAB2 (HCNP)	Hs.9822	JAK3	Hs.99877
CD40	Hs652		

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

Example Clone	Offset on Acc Start	Offset on Acc End	Accession Number	UniGene	Signif	Number Clones	Genbank Description
56D1	1521	1685	D00022	Hs.25	1.00E-84	1	for F1 beta subunit, complete
586E3	1227	1448	NM_001686	Hs.25	1.00E-89	1	ATP synthase, H <sup>+</sup> transporting, mitochondrial
459F4	1484	2522	NM_002832	Hs.35	0	3	protein tyrosine phosphatase, non-receptor t
41A11	885	1128	D12614	Hs.36	1.00E-125	1	lymphotoxin (TNF-beta), complete
41G12	442	1149	D10202	Hs.46	0	1	for platelet-activating factor receptor,
98E12	1928	2652	NM_002835	Hs.62	0	1	protein tyrosine phosphatase, non-receptor t
170E1	473	1071	U13044	Hs.78	0	1	nuclear respiratory factor-2 subunit alpha mRNA, com
40C6	939	1357	D11086	Hs.84	0	1	interleukin 2 receptor gamma chain
521F9	283	1176	NM_000206	Hs.84	0	8	interleukin 2 receptor, gamma (severe combined
60A11	989	1399	L08069	Hs.94	0	2	heat shock protein, E. coli DnaJ homologue complete cd
520B9	545	1438	NM_001539	Hs.94	0	3	heat shock protein, DNAJ-like 2 (HSJ2), mRNA /
460H9	626	1104	NM_021127	Hs.96	0	1	phorbol-12-myristate-13-acetate-induced p
127G12	651	1223	NM_004906	Hs.119	0	2	Wilms' tumour 1-associating protein (KIAA0105
586A7	438	808	NM_000971	Hs.153	0	3	ribosomal protein L7 (RPL7), mRNA /cds=(10,756
99H12	2447	4044	NM_002600	Hs.188	0	2	phosphodiesterase 4B, cAMP-specific (dunce (
464D4	2317	2910	NM_002344	Hs.210	0	1	leukocyte tyrosine kinase (LTK), mRNA /cds=(17
464B3	10	385	NM_002515	Hs.214	1.00E-164	1	neuro-oncological ventral antigen 1 (NOVA1),
40A12	296	1163	L11695	Hs.220	0	1	activin receptor-like kinase (ALK-5) mRNA, complete
129A2	4138	4413	NM_000379	Hs.250	1.00E-155	1	xanthine dehydrogenase (XDH), mRNA
36B10	80	1475	AF068836	Hs.270	0	3	cytohesin binding protein HE mRNA, complete cd
45C11	58	1759	NM_004288	Hs.270	0	2	pleckstrin homology, Sec7 and coiled/coiled dom
128C12	2555	3215	NM_000153	Hs.273	0	4	galactosylceramidase (Krabbe disease) (GALC)
67H2	259	1418	D23660	Hs.286	0	8	ribosomal protein, complete cds
151E6	624	1170	AF052124	Hs.313	0	1	clone 23810 osteopontin mRNA, complete cds /c
45A7	4	262	NM_000582	Hs.313	1.00E-136	1	secreted phosphoprotein 1 (osteopontin, bone
44C10	2288	2737	J03250	Hs.317	0	1	topoisomerase I mRNA, complete cds /cds=(211,2508) /
99H9	2867	3246	NM_001558	Hs.327	0	2	Interleukin 10 receptor, alpha (IL10RA), mRNA
41B4	2867	3315	U00672	Hs.327	0	6	Interleukin-10 receptor mRNA, complete
144E1	283	989	M26683	Hs.340	0	36	interferon gamma treatment inducible /cds=(14,1
41A12	1854	2590	X53961	Hs.347	0	1	lactoferrin /cds=(294,2429) /gb=X53961 /gi=
40F1	1377	1734	U95626	Hs.395	0	1	ccr2b (ccr2), ccr2a (ccr2), ccr5 (ccr5) and cc
463H4	55	434	NM_001459	Hs.428	0	1	fms-related tyrosine kinase 3 ligand (FLT3LG)
127E1	552	1048	NM_005180	Hs.431	0	1	murine leukemia viral (bmi-1) oncogene homolo
73G12	189	1963	NM_004024	Hs.460	0	17	activating transcription factor 3 (ATF3), ATF
524A4	1361	2136	NM_004168	Hs.469	0	2	succinate dehydrogenase complex, subunit A,
41C7	1554	2097	D10925	Hs.516	0	1	HM145 /cds=(22,1089) /gb=D10925 /gi=219862
588A2	48	163	NM_001032	Hs.539	1.00E-59	1	ribosomal protein S29 (RPS29), mRNA /cds=(30,2
177B4	1	1674	AF076465	Hs.550	2.00E-37	2	PhLOP2 mRNA, complete cds /cds=(5,358) /gb=AF
68G5	2	1454	M26383	Hs.624	0	17	monocyte-derived neutrophil-activating protein (M
45F10	1	1454	NM_000584	Hs.624	0	11	interleukin 8 (IL8), mRNA /cds=(74,373) /gb=N
59F11	69	1822	X68550	Hs.652	0	14	TRAP mRNA for ligand of CD40 /cds=(56,841) /gb=X6
471C9	3115	3776	NM_000492	Hs.663	0	1	cystic fibrosis transmembrane conductance re
68D1	228	866	M20137	Hs.694	0	3	interleukin 3 (IL-3) mRNA, complete cds, clone pcD-SR
49H3	42	665	NM_000588	Hs.694	0	1	interleukin 3 (colony-stimulating factor, mu
147H3	110	340	BF690338	Hs.695	1.00E-102	1	602186730T1 cDNA, 3' end /clone=IMAGE:4299006
483E4	310	846	NM_000942	Hs.699	0	1	peptidylprolyl isomerase B (cyclophilin B) (
522B12	349	755	NM_000788	Hs.709	0	2	deoxycytidine kinase (DCK), mRNA /cds=(159,94
331E5	1293	1470	J03634	Hs.727	9.00E-75	1	erythroid differentiation protein mRNA (EDF), comple
514D12	1164	1579	NM_004907	Hs.737	1.00E-169	3	immediate early protein (ETR101), mRNA /cds=(
73H7	1953	3017	AJ243425	Hs.738	0	8	EGR1 gene for early growth response protein 1 /

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

592A8	10	454	NM_003973	Hs.738	0	5	ribosomal protein L14 (RPL14), mRNA
519A1	116	1527	NM_000801	Hs.752	1.00E-163	2	FK506-binding protein 1A (12kD) (FKBP1A), mRN
109H11	1	1208	M60626	Hs.753	0	10	N-formylpeptide receptor (fMLP-R98) mRNA, complete
99C5	1	1175	NM_002029	Hs.753	0	25	formyl peptide receptor 1 (FPR1), mRNA
103C1	2285	2890	NM_002890	Hs.758	0	1	RAS p21 protein activator (GTPase activating p
41H4	3142	3332	NM_000419	Hs.785	1.00E-84	1	integrin, alpha 2b (platelet glycoprotein IIb
171D2	198	748	X54489	Hs.789	1.00E-132	2	melanoma growth stimulatory activity (MGSA)
458H7	2165	2818	NM_001656	Hs.792	0	1	ADP-ribosylation factor domain protein 1, 64
62B3	833	1241	M60278	Hs.799	0	2	heparin-binding EGF-like growth factor mRNA, complet
53G4	1299	2166	AK001364	Hs.808	0	6	FLJ10502 fls, clone NT2RP2000414, highly
597F3	1136	1797	NM_004966	Hs.808	0	2	heterogeneous nuclear ribonucleoprotein F (
143F7	575	985	M74525	Hs.811	0	3	HHR6B (yeast RAD 6 homologue) mRNA, complete
518H8	580	974	NM_003337	Hs.811	0	1	ubiquitin-conjugating enzyme E2B (RAD6 homol
45G8	277	833	NM_002121	Hs.814	0	1	major histocompatibility complex, class II,
41H11	719	1534	NM_005191	Hs.838	0	1	CD80 antigen (CD28 antigen ligand 1, B7-1 antig
41G1	117	557	U31120	Hs.845	0	1	interleukin-13 (IL-13) precursor gene, complete cds
75E1	693	862	J05272	Hs.850	2.00E-58	4	IMP dehydrogenase type 1 mRNA complete
129B11	3361	3883	L25851	Hs.851	0	1	integrin alpha E precursor, mRNA, complete cds
481E9	3381	3742	NM_002208	Hs.851	1.00E-173	1	Integrin, alpha E (antigen CD103, human mucosa
71G7	1	1193	NM_000619	Hs.856	0	111	interferon, gamma (IFNG), mRNA /cds=(108,608)
75H5	1	1193	X13274	Hs.856	0	314	interferon IFN-gamma /cds=(108,608) /gb=X13
525B12	672	894	NM_002341	Hs.890	1.00E-121	1	lymphotoxin beta (TNF superfamily, member 3)
40E8	75	999	AL121985	Hs.901	0	6	DNA sequence RP11-404F10 on chromosome 1q2
48H4	680	933	NM_001778	Hs.901	1.00E-130	2	CD48 antigen (B-cell membrane protein) (CD48)
179G8	1652	2181	AL163285	Hs.926	0	1	chromosome 21 segment HS21C085
48G11	1049	2092	NM_002463	Hs.926	0	3	myxovirus (influenza) resistance 2, homolog o
110B12	209	1734	M32011	Hs.949	0	8	neutrophil oxidase factor (p67-phox) mRNA, complete
99C9	207	1733	NM_000433	Hs.949	0	11	neutrophil cytosolic factor 2 (65kD, chronic g
125D2	958	1645	NM_004645	Hs.966	0	1	coilin (COIL), mRNA /cds=(22,1752) /gb=N
458C1	1649	2285	NM_006025	Hs.997	0	1	protease, serine, 22 (P11), mRNA /cds=(154,126
40H11	621	864	L26953	Hs.1010	1.00E-135	1	chromosomal protein mRNA, complete cds /cds=(7
116D10	513	858	NM_002932	Hs.1010	0	1	regulator of mitotic spindle assembly 1 (RMSA
40G11	1565	2151	M31452	Hs.1012	0	1	proline-rich protein (PRP) mRNA, complete
192A6	321	908	NM_000284	Hs.1023	0	1	pyruvate dehydrogenase (lipoamide) alpha 1 (
480H11	2158	2402	NM_004762	Hs.1050	2.00E-91	1	pleckstrin homology, Sec7 and coiled/coiled dom
41F12	291	565	M57888	Hs.1051	1.00E-112	1	(clone lambda B34) cytotoxic T-lymphocyte-associate
41A5	1311	1852	M55654	Hs.1100	0	1	TATA-binding protein mRNA, complete
461D7	999	1277	NM_002698	Hs.1101	1.00E-92	1	POU domain, class 2, transcription factor 2 (P
597H9	1083	1224	NM_000660	Hs.1103	3.00E-75	1	transforming growth factor, beta 1 (TGFB1), mR
40B5	1433	2010	X02812	Hs.1103	0	1	transforming growth factor-beta (TGF-beta)
106A10	1977	2294	M73047	Hs.1117	1.00E-176	1	tripeptidyl peptidase II mRNA, complete cds /c
165E8	4273	4582	NM_003291	Hs.1117	1.00E-173	1	tripeptidyl peptidase II (TPP2), mRNA /cds=(23
63G12	1114	2339	D49728	Hs.1119	0	7	NAK1 mRNA for DNA binding protein, complete
45B10	1317	1857	NM_002135	Hs.1119	0	1	nuclear receptor subfamily 4, group A, member
37H3	568	783	M24069	Hs.1139	1.00E-119	1	DNA-binding protein A (dbpA) gene, 3' end
476F9	209	608	NM_000174	Hs.1144	0	1	glycoprotein IX (platelet) (GP9), mRNA /cds=(
43A10	1105	1357	U15085	Hs.1162	3.00E-41	1	HLA-DMB mRNA, complete cds
139D6	1345	1680	L11329	Hs.1183	1.00E-102	1	protein tyrosine phosphatase (PAC-1) mRNA, co
134B12	1233	1675	NM_004418	Hs.1183	0	1	dual specificity phosphatase 2 (DUSP2), mRNA
58F1	17	341	NM_002157	Hs.1197	0	1	heat shock 10kD protein 1 (chaperonin 10) (HSP
158G5	20	341	U07550	Hs.1197	1.00E-180	2	chaperonin 10 mRNA, complete cds
167C8	813	1453	NM_000022	Hs.1217	0	4	adenosine deaminase (ADA), mRNA /cds=(95,1186
179H1	730	1452	X02994	Hs.1217	0	6	adenosine deaminase (adenosine aminohydrola
40E10	594	792	M38690	Hs.1244	1.00E-109	1	CD9 antigen mRNA, complete cds

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

41C5	1280	1438	AK024951	Hs.1279	2.00E-80	1	FLJ21298 fis, clone COL02040, highly sim
40E3	1002	1735	NM_000065	Hs.1282	0	1	complement component 6 (C6) mRNA /cd
40A11	1638	1821	K02766	Hs.1290	3.00E-93	1	complement component C9 mRNA, complete
40B12	4639	5215	NM_007289	Hs.1298	0	1	membrane metallo-endopeptidase (neutral end
41G2	1576	1870	M28825	Hs.1309	1.00E-115	1	thymocyte antigen CD1a mRNA, complete cds
41F8	1171	1551	AX023365	Hs.1349	0	1	Sequence 36 from Patent WO0006605
40E1	673	1147	M30142	Hs.1369	0	1	decay-accelerating factor mRNA, complete cds
118B12	1129	1719	NM_000574	Hs.1369	0	1	decay accelerating factor for complement (CD5
75F8	830	2979	NM_000399	Hs.1395	0	48	early growth response 2 (Krox-20 (Drosophila)
41F11	973	1428	M15059	Hs.1416	0	1	Fc-epsilon receptor (IgE receptor) mRNA, complete cd
110G12	1931	2071	AL031729	Hs.1422	2.00E-70	1	DNA seq RP1-159A19 on chromosome 1p36
113D10	1718	2066	NM_005248	Hs.1422	6.00E-76	2	Gardner-Rasheed feline sarcoma viral (v-fgr)
477C2	3292	3842	NM_000152	Hs.1437	0	1	glucosidase, alpha; acid (Pompe disease, glyc
124D1	795	1127	NM_000167	Hs.1466	0	1	glycerol kinase (GK), mRNA /cds=(66,1640) /gb
41B9	2231	2447	J03171	Hs.1513	1.00E-108	1	Interferon-alpha receptor (HuIFN-alpha-Rec) mRNA,
99F7	927	1889	NM_014882	Hs.1528	0	2	KIAA0053 gene product (KIAA0053), mRNA /cds=(
469G9	1220	1507	NM_005082	Hs.1579	1.00E-117	1	zinc finger protein 147 (estrogen-responsive
195B7	190	1801	BC002971	Hs.1600	0	3	clone IMAGE:3543711, mRNA, partial cds /cds=
195F10	3676	3856	NM_000110	Hs.1602	1.00E-85	1	dihydropyrimidine dehydrogenase (DPYD), mRN
129E7	648	1827	L08176	Hs.1652	0	2	Epstein-Barr virus induced G-protein coupled recepto
478H5	1839	2050	NM_002056	Hs.1674	7.00E-79	1	glutamine-fructose-6-phosphate transaminas
39H1	436	865	L35249	Hs.1697	0	1	vacuolar H <sup>+</sup> -ATPase Mr 56,000 subunit (H057) mR
183H8	972	1183	NM_001693	Hs.1697	1.00E-106	1	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar
481A4	1594	1785	NM_001420	Hs.1701	2.00E-79	1	ELAV (embryonic lethal, abnormal vision, Dros
40B3	3846	4009	L39064	Hs.1702	4.00E-70	1	interleukin 9 receptor precursor (IL9R) gene,
176G8	1033	1400	NM_006084	Hs.1706	0	1	interferon-stimulated transcription factor
689C11	1	1347	NM_005998	Hs.1708	0	2	chaperonin containing TCP1, subunit 3 (gamma)
70H5	1	494	X74801	Hs.1708	0	1	Cctg mRNA for chaperonin /cds=(0,1634) /gb=X7480
460C12	3310	3809	NM_012089	Hs.1710	0	1	ATP-binding cassette, sub-family B (MDR/TAP),
41D5	484	1862	M28983	Hs.1722	0	3	interleukin 1 alpha (IL 1) mRNA, complete cds /
119E8	493	904	NM_000575	Hs.1722	1.00E-151	2	interleukin 1, alpha (IL1A), mRNA /cds=(36,851
479E11	5	268	NM_000417	Hs.1724	1.00E-145	1	interleukin 2 receptor, alpha (IL2RA), mRNA /
62C8	85	1887	X01057	Hs.1724	0	2	interleukin-2 receptor /cds=(180,998) /gb=X
466A3	2166	2675	NM_000889	Hs.1741	0	1	integrin, beta 7 (ITGB7), mRNA /cds=(151,2547)
107A4	4960	5610	L33075	Hs.1742	0	1	ras GTPase-activating-like protein (IQGAP1)
189A5	4318	7450	NM_003870	Hs.1742	0	3	IQ motif containing GTPase activating protein
597D1	1230	1737	NM_005356	Hs.1785	1.00E-127	5	lymphocyte-specific protein tyrosine kinase
41C10	1057	1602	J04142	Hs.1799	0	1	(lambda-gt10ht-5) MHC class I antigen-like gl
104H1	1854	2023	L06175	Hs.1845	4.00E-54	1	P5-1 mRNA, complete cds /cds=(304,735) /gb=L06
98F7	34	2041	NM_006674	Hs.1845	4.00E-63	5	MHC class I region ORF (P5-1), /cds=(304,735) /
104F1	1390	1756	NM_002436	Hs.1861	0	2	membrane protein, palmitoylated 1 (55kD) (MPP
171F7	1760	2192	M55284	Hs.1880	0	1	protein kinase C-L (PRKCL) mRNA, complete cds
134B2	123	1182	NM_002727	Hs.1908	0	10	proteoglycan 1, secretory granule (PRG1), mRN
61C11	126	902	X17042	Hs.1908	0	11	hematopoietic proteoglycan core protein /cds
458G1	1	475	NM_001885	Hs.1940	0	1	crystallin, alpha B (CRYAB), mRNA
520E10	71	343	NM_001024	Hs.1948	1.00E-142	3	ribosomal protein S21 (RPS21), mRNA
459D6	2435	3055	NM_001761	Hs.1973	0	1	cyclin F (CCNF), mRNA /cds=(43,2403)
41H3	184	1620	NM_006139	Hs.1987	0	2	CD28 antigen (Tp44) (CD28), mRNA /cds=(222,884
71C5	721	1329	NM_000639	Hs.2007	0	2	tumor necrosis factor (ligand) superfamily, m
73C1	721	1603	X89102	Hs.2007	0	8	fasligand /cds=(157,1002)
135G3	940	1352	NM_002852	Hs.2050	6.00E-86	1	pentaxin-related gene, rapidly induced by IL
44A10	1562	1748	M58028	Hs.2055	7.00E-69	1	ubiquitin-activating enzyme E1 (UBE1) mRNA, complete

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

155G5	973	2207	AL133415	Hs.2064	0	7	DNA sequence from clone RP11-124N14 on chromosome 10.
599H7	48	3022	AK025306	Hs.2083	0	12	cDNA: FLJ21653 fis, clone COL08586,
71H1	1598	2163	NM_004419	Hs.2128	0	5	dual specificity phosphatase 5 (DUSP5), mRNA
69H7	1595	2161	U15932	Hs.2128	0	11	dual-specificity protein phosphatase mRNA, complete
458C4	1928	2358	NM_005658	Hs.2134	0	1	TNF receptor-associated factor 1 (TRAF1), mRN
192E11	6	414	NM_002704	Hs.2164	0	1	pro-platelet basic protein (includes platele
40D12	1935	2845	M58597	Hs.2173	0	2	ELAM-1 ligand fucosyltransferase (ELFT) mRNA, comple
40E5	2834	3024	M59820	Hs.2175	1.00E-104	1	granulocyte colony-stimulating factor receptor (CSF
482D8	2521	2943	NM_000760	Hs.2175	0	2	colony stimulating factor 3 receptor (granuloc
60H6	918	1723	AF119850	Hs.2186	0	6	PRO1608 mRNA, complete cds /cds=(1221,2174) /
597F11	99	1267	NM_001404	Hs.2186	0	29	eukaryotic translation elongation factor 1 g
595G4	6	570	L40410	Hs.2210	0	1	thyroid receptor interactor (TRIP3) mRNA, 3'
41H12	970	1353	X03656	Hs.2233	0	1	granulocyte colony-stimulating factor (G-C
461A9	287	730	Z29067	Hs.2236	0	1	H.sapiens nek3 mRNA for protein kinase
493E11	212	608	NM_000879	Hs.2247	1.00E-141	2	interleukin 5 (colony-stimulating factor, eo
150B5	363	815	X04688	Hs.2247	0	1	T-cell replacing factor (interleukin-5) /cd
461E12	255	342	NM_001565	Hs.2248	8.00E-34	1	small inducible cytokine subfamily B (Cys-X-C
129A8	1790	1970	NM_002309	Hs.2250	2.00E-94	1	leukemia inhibitory factor (cholinergic diff
40G10	2152	2560	X04481	Hs.2253	0	1	complement component C2 /cds=(36,2294) /gb=X
479A2	95	610	NM_000073	Hs.2259	0	2	CD3G antigen, gamma polypeptide (TIT3 complex
592G6	783	1163	NM_002950	Hs.2280	0	2	ribophorin I (RPN1), mRNA /cds=(137,1960) /gb
459G11	673	1316	NM_004931	Hs.2299	0	1	CD8 antigen, beta polypeptide 1 (p37) (CD8B1),
129B8	1159	1316	X13444	Hs.2299	1.00E-74	1	CD8 beta-chain glycoprotein (CD8 beta.1) /cd
467F12	2928	3239	NM_000346	Hs.2316	3.00E-85	1	SRY (sex determining region Y)-box 9 (campomeli
44A6	1506	1629	U23028	Hs.2437	7.00E-62	1	eukaryotic initiation factor 2B-epsilon mRNA, partia
127B8	1814	2405	NM_003816	Hs.2442	0	1	a disintegrin and metalloproteinase domain 9
36G6	1361	2019	D13645	Hs.2471	0	2	KIAA0020 gene, complete cds /cds=(418,1944)
458D6	396	961	NM_021966	Hs.2484	0	1	T-cell leukemia/lymphoma 1A (TCL1A), mRNA /c
124G1	966	1473	NM_005565	Hs.2488	0	1	lymphocyte cytosolic protein 2 (SH2 domain-con
107A6	1962	2031	U20158	Hs.2488	2.00E-22	1	76 kDa tyrosine phosphoprotein SLP-76 mRNA, complete
592E12	2175	2458	NM_002741	Hs.2499	1.00E-158	1	protein kinase C-like 1 (PRKCL1), mRNA /cds=(8
106A11	1455	2219	U34252	Hs.2533	0	2	gamma-aminobutyraldehyde dehydrogenase mRNA, compl
40F8	2201	2694	NM_003032	Hs.2554	0	1	sialyltransferase 1 (beta-galactoside alpha-
460G6	565	2052	NM_002094	Hs.2707	0	2	G1 to S phase transition 1 mRNA
60G5	35	184	X92518	Hs.2726	7.00E-27	2	HMG1-C protein /cds=UNKNOWN
461F10	1034	1520	NM_002145	Hs.2733	0	2	homeo box B2 (HOXB2), mRNA
69G2	408	1369	AK026515	Hs.2795	0	4	FLJ22862 fis, clone KATO1966, highly sim
71D8	13	541	NM_005566	Hs.2795	0	1	lactate dehydrogenase A (LDHA), mRNA /cds=(97
40H12	4119	4807	NM_002310	Hs.2798	0	1	leukemia inhibitory factor receptor (LIFR) mR
189C12	696	1287	NM_006196	Hs.2853	0	2	poly(rC)-binding protein 1 (PCBP1), mRNA /cds
111E8	1298	1938	NM_003566	Hs.2864	0	1	early endosome antigen 1, 162kD (EEA1), mRNA /
127F12	34	248	NM_001033	Hs.2934	1.00E-109	1	ribonucleotide reductase M1 polypeptide (RRM
74G6	11	241	AK023088	Hs.2953	1.00E-128	38	FLJ13026 fis, clone NT2RP3000968, modera
128D8	178	518	NM_000117	Hs.2985	1.00E-173	1	emerin (Emery-Dreifuss muscular dystrophy) (
169G7	2406	3112	AL136593	Hs.3059	0	1	DKFZp761K102 (from clone DKFZp761K1
193A3	2405	3017	NM_016451	Hs.3059	0	5	coatamer protein complex, subunit beta (COPB)
53F12	486	1007	L11066	Hs.3069	0	3	sequence /cds=UNKNOWN /gb=L11066 /g=307322 /u
71E8	1623	2131	NM_004134	Hs.3069	0	2	heat shock 70kD protein 9B (mortalin-2) (HSPA9
458A5	2236	2874	NM_014877	Hs.3085	0	1	KIAA0054 gene product; Helicase (KIAA0054), m
69E8	1752	1916	D31884	Hs.3094	7.00E-68	1	KIAA0063 gene, complete cds /cds=(279,887) /
66B3	251	1590	D32053	Hs.3100	0	2	for Lysyl tRNA Synthetase, complete cds /
458E1	1645	1964	NM_001666	Hs.3109	1.00E-178	1	Rho GTPase activating protein 4 (ARHGAP4), mRN



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

331D8	2882	3585	U26710	Hs.3144	0	1	cbl-b mRNA, complete cds /cds=(322,3270) /gb=U26710
73D9	1	613	AL031736	Hs.3195	0	18	DNA sequence clone 738P11 on chromosome 1q24.1-2
58B1	1	607	NM_002995	Hs.3195	0	17	small inducible cytokine subfamily C, member
98F11	145	588	NM_003172	Hs.3196	0	1	surfeit 1 (SURF1), mRNA /cds=(14,916) /gb=NM_
124E9	1258	2414	NM_007318	Hs.3260	0	2	presenilin 1 (Alzheimer disease 3) (PSEN1), tr
64G7	1040	1569	NM_002155	Hs.3268	0	1	heat shock 70kD protein 6 (HSP70B) (HSPA6), mR
36D4	1116	1917	X51757	Hs.3268	0	4	heat-shock protein HSP70B' gene /cds=(0,1931) /gb=X5
39H11	1	507	BE895166	Hs.3297	1.00E-152	4	601436095F1 cDNA, 5' end /clone=IMAGE:3921239
103G4	16	540	NM_002954	Hs.3297	0	4	ribosomal protein S27a (RPS27A), mRNA /cds=(3
127H7	1391	1806	AB037752	Hs.3355	0	1	mRNA for KIAA1331 protein, partial cds /cds=(0
107D3	1932	2517	AK027064	Hs.3382	0	1	FLJ23411 fis, clone HEP20452, highly sim
121B3	1270	3667	NM_005134	Hs.3382	0	4	protein phosphatase 4, regulatory subunit 1 (
58H1	104	573	NM_001122	Hs.3416	0	6	adipose differentiation-related protein (AD
75G1	104	1314	X97324	Hs.3416	0	16	adipophilin /cds=(0,1313) /gb=X97324 /
182A4	147	334	NM_001867	Hs.3462	1.00E-102	1	cytochrome c oxidase subunit VIIc (COX7C), mRN
134D7	36	270	NM_001025	Hs.3463	1.00E-127	3	ribosomal protein S23 (RPS23), mRNA /cds=(13,4
192B10	129	1135	AL357536	Hs.3576	0	3	mRNA full length insert cDNA clone EUROIMAGE 37
112G12	56	687	NM_003001	Hs.3577	0	1	succinate dehydrogenase complex, subunit C,
526H6	143	537	BF666961	Hs.3585	0	1	602121608F1 cDNA, 5' end /clone=IMAGE:4278768
599F10	2098	2351	NM_004834	Hs.3628	1.00E-118	2	mitogen-activated protein kinase kinase kina
594F1	239	1321	NM_001551	Hs.3631	0	4	immunoglobulin (CD79A) binding protein 1 (IG
463E7	911	1033	AL359940	Hs.3640	1.00E-63	1	mRNA; cDNA DKFZp762P1915 (from clone DKFZp762P
182A9	657	1179	AL050268	Hs.3642	0	2	mRNA; cDNA DKFZp564B163 (from clone DKFZp564B1
38B4	257	568	AB034205	Hs.3688	1.00E-151	3	for cisplatin resistance-associated ove
185H6	769	995	NM_006003	Hs.3712	2.00E-88	1	ubiquinol-cytochrome c reductase, Rieske lro
587A1	716	1609	NM_006007	Hs.3776	0	2	zinc finger protein 216 (ZNF216), mRNA /cds=(2
473B5	48	531	NM_021633	Hs.3826	0	1	kelch-like protein C3IP1 (C3IP1), mRNA /cds=(
194G5	2456	2984	AB002366	Hs.3852	0	1	mRNA for KIAA0368 gene, partial cds /cds=(0,4327) /gb
589B4	526	1337	NM_000310	Hs.3873	0	3	palmitoyl-protein thioesterase 1 (ceroid-lip
515A10	1618	2130	NM_002267	Hs.3886	0	1	karyopherin alpha 3 (importin alpha 4) (KPNA3)
188A8	1160	1632	NM_002807	Hs.3887	0	1	proteasome (prosome, macropain) 26S subunit,
102F7	4226	4531	AB023163	Hs.4014	1.00E-158	1	for KIAA0946 protein, partial cds /cds=(0
50B8	1	166	AL117595	Hs.4055	3.00E-89	2	cDNA DKFZp564C2063 (from clone DKFZp564
473A10	1064	1709	NM_006582	Hs.4069	0	1	glucocorticoid modulatory element binding pr
524A12	2863	3386	AL136105	Hs.4082	0	1	DNA sequence from clone RP4-670F13 on chromosome 1q42
525E1	521	974	BC002435	Hs.4096	0	1	clone IMAGE:3346451, mRNA, partial cds /cds=
163G12	1130	1630	X52882	Hs.4112	0	6	t-complex polypeptide 1 gene /cds=(21,1691) /gb=X528
176A7	515	892	BC000687	Hs.4147	0	1	translocating chain-associating membrane p
185B5	3480	3707	AB023216	Hs.4278	1.00E-86	1	mRNA for KIAA0999 protein, partial cds /cds=(0
154E12	1731	2531	AF079566	Hs.4311	0	2	ubiquitin-like protein activating enzyme (UB
331C9	1595	1966	AF067008	Hs.4747	0	1	dyskerin (DKC1) mRNA, complete cds /cds=(60,16
182C8	1676	1966	NM_001363	Hs.4747	1.00E-148	2	dyskeratosis congenita 1, dyskerin (DKC1), mR
178C4	1623	2162	AL136610	Hs.4750	0	3	mRNA; cDNA DKFZp564K0822 (from clone DKFZp564K
107F9	3857	4266	AB032976	Hs.4779	0	1	for KIAA1150 protein, partial cds /cds=(0
191C11	1945	2618	AF240468	Hs.4788	0	3	nicastrin mRNA, complete cds /cds=(142,2271)
143G11	869	2076	AK022974	Hs.4859	0	2	FLJ12912 fis, clone NT2RP2004476, highly
127H11	977	1666	NM_020307	Hs.4859	0	1	cyclin L anla-6a (LOC57018), mRNA /cds=(54,163
479A11	215	544	AK001942	Hs.4863	1.00E-173	1	cDNA FLJ11080 fis, clone PLACE1005181 /cds=UN

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

73C5	2314	2851	AF105366	Hs.4876	0	1	K-CI cotransporter KCC3a mRNA, alternatively
525F9	1059	1764	NM_006513	Hs.4888	0	3	seryl-tRNA synthetase (SARS), mRNA /cds=(75,1
114D8	931	1051	Z24724	Hs.4934	4.00E-52	1	H.sapiens polyA site DNA /cds=UNKNOWN /gb=Z24724 /gi=50503
587C10	1104	1343	NM_006787	Hs.4943	3.00E-94	1	hepatocellular carcinoma associated protein;
174F12	1749	2291	NM_018107	Hs.4997	0	3	hypothetical protein FLJ10482 (FLJ10482), mR
514C11	899	1489	AK021776	Hs.5019	0	1	cDNA FLJ11714 fis, clone HEMBA1005219, weakly
126H9	25	397	BE379724	Hs.5027	1.00E-118	1	601159415T1 cDNA, 3' end /clone=IMAGE:3511107
599B5	801	970	NM_017840	Hs.5080	5.00E-73	1	hypothetical protein FLJ20484 (FLJ20484), mR
47E5	4	720	AL034553	Hs.5085	0	2	DNA sequence from clone 914P20 on chromosome 20q13.13
122C11	492	860	NM_003859	Hs.5085	0	1	dolichyl-phosphate mannosyltransferase pol
116H8	1644	2902	NM_014888	Hs.5094	1.00E-102	2	ring finger protein 10 (RNF10), mRNA /cds=(698,
187G7	700	1268	NM_004710	Hs.5097	0	1	synaptogyrin 2 (SYNGR2), mRNA /cds=(29,703) /
174G3	240	500	NM_003746	Hs.5120	1.00E-144	4	dynein, cytoplasmic, light polypeptide (PIN)
145B6	199	695	BE539096	Hs.5122	1.00E-165	2	601061641F1 cDNA, 5' end /clone=IMAGE:3447850
486C1	1	529	BG028906	Hs.5122	0	2	602293015F1 cDNA, 5' end /clone=IMAGE:4387778
69F6	62	455	BF307213	Hs.5174	0	1	601891365F1 cDNA, 5' end /clone=IMAGE:4136752
583F4	82	477	NM_001021	Hs.5174	0	1	ribosomal protein S17 (RPS17), mRNA /cds=(25,4
74C4	1955	2373	AK025367	Hs.5181	1.00E-179	1	FLJ21714 fis, clone COL10256, highly sim
73E12	702	987	AL109840	Hs.5184	1.00E-161	1	DNA sequence from clone RP4-543J19 on chromosome 20 C
180G4	26	639	NM_002212	Hs.5215	0	2	integrin beta 4 binding protein (ITGB4BP), mRN
98F1	17	636	NM_014165	Hs.5232	0	5	HSPC125 protein (HSPC125), mRNA /cds=(79,606)
525A8	479	992	NM_006698	Hs.5300	0	1	bladder cancer associated protein (BLCAP), mR
99C1	19	507	NM_003333	Hs.5308	0	3	ubiquitin A-52 residue ribosomal protein fusi
172D11	714	1805	NM_005721	Hs.5321	0	3	ARP3 (actin-related protein 3, yeast) homolog
591F6	475	970	NM_015702	Hs.5324	0	1	hypothetical protein (CL25022), mRNA /cds=(1
68H8	724	1190	NM_014106	Hs.5327	0	2	PRO1914 protein (PRO1914), mRNA /cds=(1222,14
194D12	2128	2499	AB018305	Hs.5378	0	1	mRNA for KIAA0762 protein, partial cds /cds=(0
601G11	823	1322	NM_020122	Hs.5392	0	3	potassium channel modulatory factor (DKFZP434
74B4	502	1257	AF008442	Hs.5409	0	7	RNA polymerase I subunit hRPA39 mRNA, complete
134H7	543	916	NM_004875	Hs.5409	0	1	RNA polymerase I subunit (RPA40), mRNA /cds=(2
168A3	1909	2379	AF090891	Hs.5437	0	1	clone HQ0105 PRO0105 mRNA, complete cds /cds=(
145C10	2375	2564	AF016270	Hs.5464	1.00E-104	2	thyroid hormone receptor coactivating protein
587H7	1857	2563	NM_006698	Hs.5464	0	4	thyroid hormone receptor coactivating protein
183D10	1199	1347	NM_006495	Hs.5509	9.00E-40	1	ecotropic viral integration site 2B (EVI2B), m
181D7	1385	1752	AK002173	Hs.5518	0	1	cDNA FLJ11311 fis, clone PLACE1010102 /cds=UNK
173B1	1	642	NM_003315	Hs.5542	0	2	tetratricopeptide repeat domain 2 (TTC2), mRN
120F8	1782	2430	AF157323	Hs.5548	0	2	p45SKP2-like protein mRNA, complete cds /cds=
464H2	46	357	NM_000998	Hs.5566	1.00E-163	2	ribosomal protein L37a (RPL37A), mRNA /cds=(1
75F5	1252	2194	AK027192	Hs.5615	0	9	FLJ23539 fis, clone LNG08101, highly sim
56E8	27	205	AI570531	Hs.5637	2.00E-95	1	tm77g04.x1 cDNA, 3' end /clone=IMAGE:2164182
524G2	2	926	NM_006098	Hs.5662	0	9	guanine nucleotide binding protein (G protein
39F8	2311	2902	AB014579	Hs.5734	0	1	for KIAA0679 protein, partial cds /cds=(0
587G2	2883	4606	NM_012215	Hs.5734	0	11	meningioma expressed antigen 5 (hyaluronidase
469E5	5041	5393	NM_014864	Hs.5737	3.00E-75	2	KIAA0475 gene product (KIAA0475), mRNA /cds=(
120H3	1022	1553	NM_016230	Hs.5741	0	1	flavohemoprotein b5+b5R (LOC51167), mRNA /cd
63H8	1049	1507	AK025729	Hs.5798	0	1	FLJ22076 fis, clone HEP12479, highly sim
590D9	1015	1470	NM_015946	Hs.5798	0	1	pelota (Drosophila) homolog (PELO), mRNA /cds
102E3	665	1027	AK000474	Hs.5811	0	1	FLJ20467 fis, clone KAT06638 /cds=(360,77

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

187E5	665	1028	NM_017835	Hs.5811	0	1	chromosome 21 open reading frame 59 (C21ORF59),
39F9	1402	1728	AK025773	Hs.5822	0	3	FLJ22120 fis, clone HEP18874 /cds=UNKNOWN
39E12	1064	1843	AF208844	Hs.5862	0	1	BM-002 mRNA, complete cds /cds=(39,296) /gb=A
173H9	906	1684	NM_016090	Hs.5887	0	2	RNA binding motif protein 7 (LOC51120), mRNA /
120E8	1702	2055	NM_012179	Hs.5912	1.00E-146	1	F-box only protein 7 (FBX07), mRNA /cds=(205,17
195D1	1309	2656	AK025620	Hs.5985	0	8	cDNA: FLJ21967 fis, clone HEP05652, highly sim
116A6	1451	2073	AK024941	Hs.6019	0	1	cDNA: FLJ21288 fis, clone COL01927 /cds=UNKNOWN
113F9	1232	1598	NM_002896	Hs.6106	1.00E-126	1	RNA binding motif protein 4 (RBM4), mRNA /cds=(
520H1	563	1007	NM_018285	Hs.6118	0	2	hypothetical protein FLJ10968 (FLJ10968), mR
180H12	5224	5568	AF315591	Hs.6151	1.00E-135	1	Pumilio 2 (PUMH2) mRNA, complete cds /cds=(23,3
185A7	612	1558	NM_016001	Hs.6153	0	6	CGI-48 protein (LOC51096), mRNA /cds=(107,167
595G2	3207	4752	Z97056	Hs.6179	0	10	DNA seq from clone RP3-434P1 on chromosome 22
592B11	234	4611	AI745230	Hs.6187	1.00E-130	6	wg10e05.x1 cDNA, 3' end /clone=IMAGE:2364704
590F2	994	1625	NM_004517	Hs.6196	0	3	Integrin-linked kinase (ILK), mRNA /cds=(156,
188A3	1550	2929	M81906	Hs.6241	0	3	P13-kinase associated p85 mRNA sequence
103C12	502	1129	AF246238	Hs.6289	0	1	HT027 mRNA, complete cds /cds=(260,784) /gb=A
100C2	804	1111	AK024539	Hs.6289	1.00E-122	1	FLJ20886 fis, clone ADKA03257 /cds=(359,
480A11	1149	1242	AB032977	Hs.6298	1.00E-46	1	mRNA for KIAA1151 protein, partial cds /cds=(0
473C8	3944	4149	NM_014859	Hs.6336	1.00E-106	1	KIAA0672 gene product (KIAA0672), mRNA /cds=(
125A10	1293	1766	NM_006791	Hs.6353	0	1	MORF-related gene 15 (MRG15), mRNA /cds=(131,1
182F5	143	2118	NM_018471	Hs.6375	0	3	uncharacterized hypothalamus protein HT010
587E8	398	2287	NM_016289	Hs.6406	0	7	MO25 protein (LOC51719), mRNA /cds=(53,1078)
135C3	2519	3084	AF130110	Hs.6456	0	2	clone FLB6303 PRO1633 mRNA, complete cds /cds=
178B5	1744	2425	AL117352	Hs.6523	0	2	DNA seq from clone RP5-876B10 on chromosome 1q42
522F10	2392	2591	NM_001183	Hs.6551	1.00E-110	2	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar
595C4	1676	2197	NM_021008	Hs.6574	0	4	suppressin (nuclear deformed epidermal autor
481F3	745	904	AL117565	Hs.6607	9.00E-82	1	mRNA; cDNA DKFZp566F164 (from clone DKFZp566F1
124A3	1046	1575	NM_017792	Hs.6631	0	1	hypothetical protein FLJ20373 (FLJ20373), mR
177F11	1966	2281	AB046844	Hs.6639	1.00E-152	1	for KIAA1624 protein, partial cds /cds=(0
521G7	4600	5210	NM_014856	Hs.6684	0	2	KIAA0476 gene product (KIAA0476); mRNA /cds=(
54C6	265	756	AB037801	Hs.6685	0	1	for KIAA1380 protein, partial cds /cds=(0
75F7	95	3507	AB014560	Hs.6727	0	4	for KIAA0660 protein, complete cds /cds=(
477H12	2	457	BF976590	Hs.6749	0	1	602244267F1 cDNA, 5' end /clone=IMAGE:4335353
60A1	1028	1307	AB026908	Hs.6790	1.00E-155	1	for microvascular endothelial differenti
100G9	341	454	BE875609	Hs.6820	2.00E-58	1	601487048F1 cDNA, 5' end /clone=IMAGE:3889762
184F7	1259	1633	AF056717	Hs.6856	0	5	ash2l2 (ASH2L2) mRNA, complete cds /cds=(295,1
195E7	1250	1711	NM_004674	Hs.6856	0	3	ash2 (absent, small, or homeotic, Drosophila,
135F11	328	600	NM_020188	Hs.6879	1.00E-151	1	DC13 protein (DC13), mRNA /cds=(175,414) /gb=
172G2	1477	1782	NM_015530	Hs.6880	1.00E-169	1	DKFZP434D156 protein (DKFZP434D156), mRNA /c
483G5	3712	3947	AL031681	Hs.6891	3.00E-72	1	DNA sequence from clone 862K6 on chromosome 20q12-13.1
184B1	1	622	AF006086	Hs.6895	0	3	Arp2/3 protein complex subunit p21-Arc (ARC21
599C12	1	622	NM_005719	Hs.6895	0	24	actin related protein 2/3 complex, subunit 3 (
43A1	2111	2312	AF037204	Hs.6900	9.00E-78	1	RING zinc finger protein (RZF) mRNA, complete c
105F6	638	1209	AK026850	Hs.6906	0	1	FLJ23197 fis, clone REC00917 /cds=UNKNOWN
178G10	5939	6469	AJ238403	Hs.6947	0	1	mRNA for huntingtin interacting protein 1 /cd
72A2	178	2992	AF001542	Hs.6975	0	9	AF001542 /clone=alpha_est218/52C1 /gb=
37F2	1757	2397	AK022568	Hs.7010	0	1	FLJ12506 fis, clone NT2RM2001700, weakly

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

598D3	1153	1299	NM_004637	Hs.7016	8.00E-56	1	RAB7, member RAS oncogene family (RAB7), mRNA
524C11	5542	5678	AB033034	Hs.7041	3.00E-72	1	mRNA for KIAA1208 protein, partial cds /cds=(2
109E10	452	1093	AF104921	Hs.7043	0	1	succinyl-CoA synthetase alpha subunit (SUCLA1
595F7	449	1150	NM_003849	Hs.7043	0	2	succinate-CoA ligase, GDP-forming, alpha sub
104H2	644	992	NM_020194	Hs.7045	1.00E-156	1	GL004 protein (GL004), mRNA /cds=(72,728) /gb
155C1	3322	3779	AK024478	Hs.7049	0	2	FLJ00071 protein, partial cds /cds=(3
473B1	3029	3439	AB051492	Hs.7076	1.00E-152	1	mRNA for KIAA1705 protein, partial cds /cds=(1
125E3	3612	3948	AL390127	Hs.7104	0	1	mRNA; cDNA DKFZp761P06121 (from clone DKFZp761
499B11	1451	1852	NM_021188	Hs.7137	0	2	clones 23667 and 23775 zinc finger protein (LOC
52B12	1850	2178	U90919	Hs.7137	1.00E-174	1	clones 23667 and 23775 zinc finger protein mRNA, compl
486A11	855	1186	NM_003904	Hs.7165	1.00E-132	1	zinc finger protein 259 (ZNF259), mRNA /cds=(2
460B6	2514	3182	NM_021931	Hs.7174	0	1	hypothetical protein FLJ22759 (FLJ22759), mR
592H8	3999	4524	AB051544	Hs.7187	0	2	mRNA for KIAA1757 protein, partial cds /cds=(3
180A10	102	468	AL117502	Hs.7200	1.00E-141	3	mRNA; cDNA DKFZp434D0935 (from clone DKFZp434
127A12	1503	2688	AL035661	Hs.7218	0	2	DNA sequence from clone RP4-568C11 on chromosome 20p1
592G9	12	263	NM_015953	Hs.7236	1.00E-138	2	CGI-25 protein (LOC51070), mRNA /cds=(44,949)
127E3	2624	4554	AB028980	Hs.7243	0	3	mRNA for KIAA1057 protein, partial cds /cds=(0
135F2	5029	5175	AB033050	Hs.7252	3.00E-78	1	mRNA for KIAA1224 protein, partial cds /cds=(0
57G1	2299	2723	NM_014319	Hs.7256	0	1	integral inner nuclear membrane protein (MAN1
122D11	2920	3123	AB014558	Hs.7278	5.00E-74	1	mRNA for KIAA0658 protein, partial cds /cds=(0
471H6	1	449	AV702692	Hs.7312	0	1	AV702692 cDNA, 5' end /clone=ADBBQC12 /clone_
104G12	4314	4797	AF084555	Hs.7351	0	2	okadaic acid-inducible and cAMP-regulated ph
590G7	771	1259	NM_005662	Hs.7381	0	5	voltage-dependent anion channel 3 (VDAC3), mR
159H2	355	1252	AL137423	Hs.7392	0	3	mRNA; cDNA DKFZp761E0323 (from clone DKFZp761E
161F3	1708	2371	NM_024045	Hs.7392	0	1	hypothetical protein MGC3199 (MGC3199), mRNA
195E1	1107	1362	NM_022736	Hs.7503	1.00E-129	1	hypothetical protein FLJ14153 (FLJ14153), mR
137F5	59	666	NM_018491	Hs.7535	0	2	COBW-like protein (LOC55871), mRNA /cds=(64,9
597E1	2302	2893	AF126028	Hs.7540	0	2	unknown mRNA /cds=(0,1261) /gb=AF126028 /gi=
473B6	3008	3302	AK025615	Hs.7567	1.00E-158	1	cDNA: FLJ21962 fis, clone HEP05564 /cds=UNKNOWN
519H1	232	720	BG112505	Hs.7589	0	2	602282107F1 cDNA, 5' end /clone=IMAGE:4369729
73A9	106	3912	M20681	Hs.7594	0	8	glucose transporter-like protein-III (GLUT3), compl
51D3	106	3200	NM_006931	Hs.7594	0	2	solute carrier family 2 (facilitated glucose t
596E8	1512	1748	M94046	Hs.7647	1.00E-129	2	zinc finger protein (MAZ) mRNA /cds=UNKNOWN /gb=M9404
472A8	1575	1983	NM_004576	Hs.7688	0	1	protein phosphatase 2 (formerly 2A), regulator
191A10	386	889	NM_007278	Hs.7719	0	3	GABA(A) receptor-associated protein (GABARAP
459C4	5636	5897	AB002323	Hs.7720	2.00E-87	1	mRNA for KIAA0325 gene, partial cds /cds=(0,6265) /gb
99A12	606	1253	NM_018453	Hs.7731	0	1	uncharacterized bone marrow protein BM036 (BM
72G8	5806	6409	AB007938	Hs.7764	0	5	for KIAA0469 protein, complete cds /cds=(
45G2	6168	6404	NM_014851	Hs.7764	1.00E-132	1	KIAA0469 gene product (KIAA0469), mRNA /cds=(
172A4	371	588	NM_007273	Hs.7771	1.00E-107	1	B-cell associated protein (REA), mRNA /cds=(9
177B8	2055	2431	AK023166	Hs.7797	0	1	FLJ13104 fis, clone NT2RP3002343 /cds=(28
99B6	865	1244	NM_012461	Hs.7797	0	1	TERF1 (TRF1)-interacting nuclear factor 2 (T
160G8	727	860	U94855	Hs.7811	5.00E-66	1	translation initiation factor 3 47 kDa subunit
54G6	1	1007	AK001319	Hs.7837	1.00E-148	3	FLJ10457 fis, clone NT2RP1001424 /cds=UN
594A7	1295	1793	NM_013446	Hs.7838	0	4	makorin, ring finger protein, 1 (MKRN1), mRNA
188A12	1	2013	NM_017761	Hs.7862	0	3	hypothetical protein FLJ20312 (FLJ20312), mR
594A2	3060	3588	AK023813	Hs.7871	0	2	cDNA FLJ13751 fis, clone PLACE3000339, weakly
124C12	472	1251	NM_001550	Hs.7879	0	1	interferon-related developmental regulator
147A8	1381	1711	Y10313	Hs.7879	1.00E-134	1	for PC4 protein (IFRD1 gene) /cds=(219,158

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

74H3	4430	4978	AF302505	Hs.7886	0	2	pellino 1 (PEL1) mRNA, complete cds /cds=(4038
71G3	473	1112	NM_016224	Hs.7905	0	2	SH3 and PX domain-containing protein SH3PX1 (S
52C7	1637	2231	AB029551	Hs.7910	0	1	YEA1 mRNA for YY1 and E4TF1 associated factor
177H5	5411	6045	AB002321	Hs.7911	0	1	KIAA0323 gene, partial cds /cds=(0,2175) /gb
114C8	1678	3078	NM_017657	Hs.7942	1.00E-149	2	hypothetical protein FLJ20080 (FLJ20080), mR
169D8	1453	2158	AK001437	Hs.7943	0	1	FLJ10575 fis, clone NT2RP2003295, highly
599G8	618	1204	NM_003798	Hs.7943	0	1	RPB5-mediated protein (RMP), mRNA /cds=(465,
127E11	107	796	NM_016099	Hs.7953	0	3	HSPC041 protein (LOC51125), mRNA /cds=(141,45
98D8	4769	6506	NM_001111	Hs.7957	0	20	adenosine deaminase, RNA-specific (ADAR), tr
37H10	2479	6594	X79448	Hs.7957	0	8	IFI-4 mRNA for type I protein /cds=(1165,3960) /g
178G4	4209	5132	AB028981	Hs.8021	0	4	mRNA for KIAA1058 protein, partial cds /cds=(0
118E9	630	1688	NM_006083	Hs.8024	0	2	IK cytokine, down-regulator of HLA II (IK), mRN
171A8	1658	1973	AK002026	Hs.8033	1.00E-151	1	FLJ11164 fis, clone PLACE1007226, weakly
103G5	1504	1977	NM_018346	Hs.8033	0	1	hypothetical protein FLJ11164 (FLJ11164), mR
179G7	2860	3032	AK022497	Hs.8068	6.00E-46	1	FLJ12435 fis, clone NT2RM1000059 /cds=(88
594A11	2327	2658	NM_018210	Hs.8083	1.00E-167	1	hypothetical protein FLJ10769 (FLJ10769), mR
103B5	1958	2448	AF267856	Hs.8084	0	1	HT033 mRNA, complete cds /cds=(203,931) /gb=A
98E4	1367	1808	AF113008	Hs.8102	0	7	clone FLB0708 mRNA sequence /cds=UNKNOWN
191H10	4581	5819	NM_018695	Hs.8117	0	3	/gb=
99F1	550	2672	AB014550	Hs.8118	0	4	erbb2-interacting protein ERBIN (LOC55914),
165H11	488	663	NM_024408	Hs.8121	3.00E-93	1	mRNA for KIAA0650 protein, partial cds /cds=(0
515C7	2188	2514	AL050371	Hs.8128	1.00E-114	1	Notch (Drosophila) homolog 2 (NOTCH2), mRNA /
166A12	234	1196	AF131856	Hs.8148	1.00E-155	2	mRNA; cDNA DKFZp566G2246 (from clone
520H8	512	712	NM_016275	Hs.8148	1.00E-110	1	DKFZp566G
592D4	1	735	NM_014886	Hs.8170	1.00E-152	3	clone 24856 mRNA sequence, complete cds /cds=(
105F12	349	760	AK001665	Hs.8173	0	1	selenoprotein T (LOC51714), mRNA /cds=(138,62
75A7	737	1458	AF000652	Hs.8180	0	1	hypothetical protein (YR-29), mRNA /cds=(82,8
64H5	105	618	NM_005625	Hs.8180	0	3	FLJ10803 fis, clone NT2RP4000833 /cds=(1
61G9	3147	3660	AB018339	Hs.8182	0	2	syntenin (syc1) mRNA, complete cds /cds=(148,1
39G2	255	1675	AF042284	Hs.8185	0	4	syndecan binding protein (syntenin) (SDCBP),
192G5	1054	1580	NM_021199	Hs.8185	0	8	for KIAA0796 protein, partial cds /cds=(0
109D3	1483	2503	AF269150	Hs.8203	0	2	unknown mRNA /cds=(76,1428) /gb=AF042284 /gi
115H4	1251	3187	NM_020123	Hs.8203	0	12	CGI-44 protein; sulfide dehydrogenase like (y
113F12	2349	3576	AL355476	Hs.8217	4.00E-35	2	transmembrane protein TM9SF3 (TM9SF3) mRNA, c
125D5	582	1050	NM_005006	Hs.8248	0	1	endomembrane protein emp70 precursor isolog (
460D3	4851	5043	AF035947	Hs.8257	7.00E-76	1	DNA sequence from clone RP11-51701 on
111E7	729	3182	NM_013995	Hs.8262	0	2	chromosome X Co
590F10	3012	4133	AK022790	Hs.8309	0	6	NADH dehydrogenase (ubiquinone) Fe-S protein
109B1	138	476	AW973507	Hs.8360	1.00E-161	1	cytokine-inducible inhibitor of signalling t
61A3	1137	1649	AB033017	Hs.8594	0	1	lysosomal-associated membrane protein 2 (LAM
523E12	905	2998	NM_007271	Hs.8724	0	4	cDNA FLJ12728 fis, clone NT2RP2000040, highly
590G2	3618	3932	NM_018031	Hs.8737	1.00E-166	3	EST385607 /gb=AW973507 /gi=8164686 /ug=
464C3	2299	2494	NM_018255	Hs.8739	1.00E-107	1	for KIAA1191 protein, partial cds /cds=(0
128H8	1580	1711	NM_018450	Hs.8740	2.00E-64	1	serine threonine protein kinase (NDR), mRNA /
179D3	921	1457	AF083255	Hs.8765	0	1	WD repeat domain 6 (WDR6), mRNA /cds=(39,3404)
195H11	1247	1481	NM_007269	Hs.8813	1.00E-100	1	hypothetical protein FLJ10879 (FLJ10879), mR
460F1	68	308	AA454036	Hs.8832	1.00E-105	1	uncharacterized bone marrow protein BM029 (BM
110E10	3672	5371	AB032252	Hs.8858	0	3	RNA helicase-related protein complete c
113D1	4814	5890	NM_013448	Hs.8858	0	2	syntaxin binding protein 3 (STXBP3), mRNA /cds
120H7	373	633	NM_017748	Hs.8928	1.00E-143	1	zx48b04.r1 cDNA, 5' end /clone=IMAGE:795439 /
470F10	1670	2260	NM_003917	Hs.8991	0	2	BAZ1A mRNA for bromodomain adjacent to zinc fi
72H11	1785	2418	M11717	Hs.8997	1.00E-147	23	bromodomain adjacent to zinc finger domain, 1A
							hypothetical protein FLJ20291 (FLJ20291), mR
							adaptor-related protein complex 1, gamma 2 su
							heat shock protein (hsp 70) gene, complete cds
							/cds=(2

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

49H4	1769	2243	NM_005345	Hs.8997	1.00E-145	12	heat shock 70kD protein 1A (HSPA1A), mRNA /cds=
519E7	270	729	NM_003574	Hs.9006	0	1	VAMP (vesicle-associated membrane protein)-a
142E2	1285	1518	AK022215	Hs.9043	1.00E-107	1	FLJ12153 fis, clone MAMMA1000458 /cds=UNK
108B9	1160	1823	AJ002030	Hs.9071	0	1	for putative progesterone binding protein
47C7	452	795	AB011420	Hs.9075	0	1	for DRAK1, complete cds /cds=(117,1361) /
590A4	791	1377	NM_004760	Hs.9075	0	4	serine/threonine kinase 17a (apoptosis-induc
168D11	1000	1641	NM_017426	Hs.9082	0	1	nucleoporin p54 (NUP54), mRNA /cds=(25,1542)
63H9	799	1163	Y17829	Hs.9192	0	1	for Homer-related protein Syn47 /cds=(75,
167B11	1466	1863	NM_006251	Hs.9247	0	1	protein kinase, AMP-activated, alpha 1 cataly
196D5	1021	1492	AK024327	Hs.9343	0	1	cDNA FLJ14265 fis, clone PLACE1002256 /cds=UNK
192F3	245	790	NM_017983	Hs.9398	0	1	hypothetical protein FLJ10055 (FLJ10055), mR
121C3	3381	3567	AF217190	Hs.9414	3.00E-90	1	MLEL1 protein (MLEL1) mRNA, complete cds /cds=
196B6	959	1551	NM_003601	Hs.9456	0	1	SWI/SNF related, matrix associated, actin dep
331B5	2624	2950	AF027302	Hs.9573	1.00E-179	1	TNF-alpha stimulated ABC protein (ABC50) mRNA
592E11	1	479	NM_002520	Hs.9614	1.00E-139	7	nucleophosmin (nucleolar phosphoprotein B23
515D6	1739	2091	AB037796	Hs.9663	1.00E-160	1	mRNA for KIAA1375 protein, partial cds /cds=(0
124A5	1387	1762	NM_012068	Hs.9754	0	2	activating transcription factor 5 (ATF5), mRN
122A7	1484	1928	AB028963	Hs.9846	1.00E-154	1	mRNA for KIAA1040 protein, partial cds /cds=(0
591E2	1626	2194	AF123073	Hs.9851	0	5	C/EBP-induced protein mRNA, complete cds /cds
111G2	4208	5361	AB033076	Hs.9873	0	2	mRNA for KIAA1250 protein, partial cds /cds=(0
469D5	932	3551	AK022758	Hs.9908	1.00E-178	6	cDNA FLJ12696 fis, clone NT2RP1000513, highly
590D5	172	742	NM_001425	Hs.9999	2.00E-94	2	epithelial membrane protein 3 (EMP3), mRNA /c
112E7	1065	1753	NM_001814	Hs.10029	0	1	cathepsin C (CTSC), mRNA /cds=(33,1424) /gb=N
106C7	1066	1641	X87212	Hs.10029	0	1	cathepsin C /cds=(33,1424) /gb=X87212 /
127B1	1003	1429	NM_014959	Hs.10031	0	1	KIAA0955 protein (KIAA0955), mRNA /cds=(313,1
462E5	332	487	AW293461	Hs.10041	3.00E-46	1	UI-H-BI2-ahm-e-02-0-UI.s1 cDNA, 3' end /clon
190E3	101	356	NM_016551	Hs.10071	6.00E-98	1	seven transmembrane protein TM7SF3 (TM7SF3),
61B6	2571	2764	AL163249	Hs.10175	7.00E-94	1	chromosome 21 segment HS21C049 /cds=(128,2599
110F6	5310	5808	D87432	Hs.10315	0	1	KIAA0245 gene, complete cds /cds=(261,1808)
196E10	5312	5753	NM_003983	Hs.10315	0	1	solute carrier family 7 (cationic amino acid t
49D8	315	2207	AK024597	Hs.10362	0	3	cDNA: FLJ20944 fis, clone ADSE01780 /cds=UNKNO
129C7	1000	1364	AB018249	Hs.10458	0	1	CC chemokine LEC, complete cds /cds=(1
62F11	1239	2034	AL031685	Hs.10590	0	2	DNA sequence from clone RP5-963K23 on
460D5	86	815	AL357374	Hs.10600	0	4	chromosome 20q1
179C12	3765	4300	AK000005	Hs.10647	0	2	DNA sequence from clone RP11-353C18 on
482D12	1753	2359	NM_004848	Hs.10649	0	1	chromosome 20
184F4	2686	3194	AL137721	Hs.10702	0	1	FLJ00005 protein, partial cds /cds=(0
186F10	2688	3084	NM_017601	Hs.10702	1.00E-137	2	basement membrane-induced gene (ICB-1), mRNA
461E3	593	1110	NM_021821	Hs.10724	0	1	mRNA; cDNA DKFZp761H221 (from clone
598D5	660	1191	NM_014306	Hs.10729	0	2	DKFZp761H2
125D9	104	397	NM_002495	Hs.10758	1.00E-165	1	hypothetical protein DKFZp761H221 (DKFZp761H
36A7	172	1114	NM_006325	Hs.10842	0	11	MDS023 protein (MDS023), mRNA /cds=(335,1018)
54H1	240	1467	NM_012257	Hs.10882	0	2	hypothetical protein (HSPC117), mRNA /cds=(75
596B8	1186	1895	AK025212	Hs.10888	0	17	NADH dehydrogenase (ubiquinone) Fe-S protein
458G7	989	1492	Z78330	Hs.10927	0	1	RAN, member RAS oncogene family RAN, member
115D2	308	638	BF793378	Hs.10957	1.00E-102	1	RAS
148H9	226	863	AF021819	Hs.10958	0	1	HMG-box containing protein 1 (HBP1), mRNA /cds
173D5	356	816	NM_007262	Hs.10958	0	1	cDNA: FLJ21559 fis, clone COL06406 /cds=UNKNOW
39B7	1553	2256	AF063605	Hs.11000	0	1	HSZ78330 cDNA /clone=2.49-(CEPH) /gb=Z78330
592H5	1553	2257	NM_015344	Hs.11000	0	3	602254823F1 cDNA, 5' end /clone=IMAGE:4347076
							RNA-binding protein regulatory subunit mRNA,
							RNA-binding protein regulatory subunit (DJ-1
							brain my047 protein mRNA, complete cds /cds=(8
							MY047 protein (MY047), mRNA /cds=(84,479) /gb

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

112G3	2591	3180	AB048813	Hs.11123	0	1	mRNA for KIAA1593 protein, partial cds /cds=(4
592E8	251	725	NM_014041	Hs.11125	0	2	HSPC033 protein (HSPC033), mRNA /cds=(168,443
477A2	1610	1697	NM_003100	Hs.11183	8.00E-43	2	sorting nexin 2 (SNX2), mRNA /cds=(29,1588) /g
41G4	6498	6751	AB014522	Hs.11238	1.00E-142	1	for KIAA0622 protein, partial cds /cds=(0
519A3	759	987	NM_018371	Hs.11260	1.00E-127	1	hypothetical protein FLJ11264 (FLJ11264), mR
175B4	404	688	BE788546	Hs.11355	4.00E-75	1	601476186F1 cDNA, 5' end /clone=IMAGE:3878948
114F11	245	401	BF665055	Hs.11356	4.00E-55	1	602119656F1 cDNA, 5' end /clone=IMAGE:4276860
40D2	96	824	U59808	Hs.11383	0	1	monocyte chemotactic protein-4 precursor (MCP-4)
109C3	767	2345	M74002	Hs.11482	0	2	mR arginine-rich nuclear protein mRNA, complete cds /cds
117G9	408	2345	NM_004768	Hs.11482	0	8	splicing factor, arginine/serine-rich 11 (SF
458G6	2053	2164	AK022628	Hs.11556	1.00E-54	1	cDNA FLJ12566 fis, clone NT2RM4000852 /cds=UNK
181E7	644	1004	AK021632	Hs.11571	1.00E-167	1	cDNA FLJ11570 fis, clone HEMBA1003309 /cds=UNK
458B3	85	522	R12665	Hs.11594	1.00E-137	1	yf40a04.s1 cDNA, 3' end /clone=IMAGE:129294 /
146B6	498	677	BE794595	Hs.11607	5.00E-82	1	601590368F1 5' end /clone=IMAGE:3944489
516F12	388	711	BG288429	Hs.11637	1.00E-132	1	602388093F1 cDNA, 5' end /clone=IMAGE:4517086
60B1	1291	1882	NM_005121	Hs.11861	0	1	thyroid hormone receptor-associated protein,
44C6	2613	2834	NM_000859	Hs.11899	9.00E-72	1	3-hydroxy-3-methylglutaryl-Coenzyme A reduc
39F10	1	221	BF668230	Hs.12035	1.00E-120	2	602122419F1 cDNA, 5' end /clone=IMAGE:4279300
596D8	234	849	U72514	Hs.12045	0	2	C2f mRNA, complete cds
481E7	1902	2190	AB028986	Hs.12084	1.00E-151	1	mRNA for KIAA1083 protein, partial cds /cds=(0
465D9	2529	2699	NM_004003	Hs.12068	8.00E-91	1	carbamate acetyltransferase (CRAT), nuclear
116H8	283	738	NM_003321	Hs.12084	0	1	Tu translation elongation factor, mitochondri
44A4	319	836	S75463	Hs.12084	0	1	P43=mitochondrial elongation factor homolog [human, live
114F7	4254	4495	AL137753	Hs.12144	1.00E-115	1	mRNA; cDNA DKFZp434K1412 (from clone DKFZp434K
123F12	1	219	NM_021203	Hs.12152	1.00E-114	1	APMCF1 protein (APMCF1), mRNA /cds=(82,225) /
619H7	166	753	AK025775	Hs.12245	0	1	cDNA: FLJ22122 fis, clone HEP19214 /cds=UNKNOWN
70E3	953	4720	AB014530	Hs.12259	0	3	for KIAA0630 protein, partial cds /cds=(0
107H1	680	1078	AK024756	Hs.12293	0	1	FLJ21103 fis, clone CAS04883 /cds=(107,1
71E5	4750	5283	NM_003170	Hs.12303	0	1	suppressor of Ty (S.cerevisiae) 6 homolog (SUP
106F3	977	1490	AL050272	Hs.12305	0	1	cDNA DKFZp566B183 (from clone DKFZp566B1
481F4	1859	2403	NM_015509	Hs.12305	0	1	DKFZp566B183 protein (DKFZp566B183), mRNA /c
114D3	1271	1520	AF038202	Hs.12311	1.00E-118	1	clone 23570 mRNA sequence /cds=UNKNOWN
463B9	1006	1224	AK021670	Hs.12315	1.00E-121	1	/gb=AF0 cDNA FLJ11608 fis, clone HEMBA1003976 /cds=(56
167A8	71	723	BG034192	Hs.12396	0	2	602302446F1 cDNA, 5' end /clone=IMAGE:4403866
460E9	3808	4166	D83776	Hs.12413	1.00E-176	1	mRNA for KIAA0191 gene, partial cds /cds=(0,4552) /gb
157E1	1887	3154	NM_020403	Hs.12450	0	3	cadherin superfamily protein VR4-11 (LOC57123
69F11	2715	3447	AK001676	Hs.12457	0	1	FLJ10814 fis, clone NT2RP4000984 /cds=(92
118B8	5781	6374	AB032973	Hs.12461	0	1	mRNA for KIAA1147 protein, partial cds /cds=(0
193G12	2069	2368	NM_005993	Hs.12570	1.00E-169	1	tubulin-specific chaperone d (TBCD), mRNA /cd
459D11	2828	3122	NM_021151	Hs.12743	1.00E-147	1	carbamate octanoyltransferase (COT), mRNA /c
196H4	1	5439	AB046785	Hs.12772	0	2	mRNA for KIAA1565 protein, partial cds /cds=(0
56G11	458	1088	AL080156	Hs.12813	0	1	cDNA DKFZp434J214 (from clone DKFZp434J2
476E6	1221	1638	NM_006590	Hs.12820	0	1	SnRNP assembly defective 1 homolog (SAD1), mRN
109E7	1	180	AF208855	Hs.12830	3.00E-79	1	BM-013 mRNA, complete cds /cds=(87,459) /gb=A

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

458A2	1818	2276	AK026747	Hs.12969	0	1	cDNA: FLJ23094 fis, clone LNG07379, highly sim
466D10	1469	1745	AK001822	Hs.12999	9.00E-39	1	cDNA FLJ10960 fis, clone PLACE1000564 /cds=UNK
187A11	1866	2555	NM_003330	Hs.13046	0	2	thioredoxin reductase 1 (TXNRD1), mRNA /cds=(
60D9	1757	3508	X91247	Hs.13046	0	3	thioredoxin reductase /cds=(439,1932)
75D7	2071	2550	AF055581	Hs.13131	0	1	adaptor protein Lnk mRNA, complete cds /cds=(3
196C2	190	845	AK026239	Hs.13179	0	2	cDNA: FLJ22586 fis, clone HSI02774 /cds=UNKNOW
480G6	11	380	AL570416	Hs.13256	1.00E-161	1	AL570416 cDNA /clone=CS0DI020YK05-(3-prime)
196H3	2814	3382	AB020663	Hs.13264	0	1	mRNA for KIAA0856 protein, partial cds /cds=(0
460H3	127	431	BF029796	Hs.13268	1.00E-151	1	601556721F1 cDNA, 5' end /clone=IMAGE:3826637
170B2	1487	1635	AB011164	Hs.13273	1.00E-69	1	for KIAA0592 protein, partial cds /cds=(0,
115E6	2153	2376	AK025707	Hs.13277	1.00E-124	1	cDNA: FLJ22054 fis, clone HEP09634 /cds=(144,9
110F10	119	648	BE537908	Hs.13328	0	1	601067373F1 cDNA, 5' end /clone=IMAGE:3453594
36C2	427	4137	AF054284	Hs.13453	0	5	spliceosomal protein SAP 155 mRNA, complete cd
594C3	5	4229	NM_012433	Hs.13453	0	10	splicing factor 3b, subunit 1, 155kD (SF3B1), m
110C6	4	1853	AF131753	Hs.13472	0	5	clone 24859 mRNA sequence /cds=UNKNOWN
173B6	1156	1672	NM_013236	Hs.13493	0	1	/gb=AF
462C4	794	1093	BC001909	Hs.13580	1.00E-115	1	like mouse brain protein E46 (E46L), mRNA /cds=
597H11	412	936	NM_014174	Hs.13645	0	1	clone IMAGE:3537447, mRNA, partial cds /cds=
107F8	429	821	AK025767	Hs.13755	0	1	HSPC144 protein (HSPC144), mRNA /cds=(446,112
102D12	3153	4764	AF000993	Hs.13980	0	2	FLJ22114 fis, clone HEP18441 /cds=UNKNOW
515G12	1710	2120	AK025425	Hs.14040	0	2	ubiquitous TPR motif, X isoform (UTX) mRNA, alt
480H5	1945	2259	AK024228	Hs.14070	1.00E-119	1	cDNA: FLJ21772 fis, clone COLF7808
61D1	73	499	NM_014245	Hs.14084	0	1	/cds=UNKNOW
122E4	2162	2685	NM_014454	Hs.14125	0	1	cDNA FLJ14166 fis, clone NT2RP1000796 /cds=(20
123D9	22	722	NM_001161	Hs.14142	0	1	ring finger protein 7 (RNF7), mRNA /cds=(53,394
460F11	1084	1322	NM_017827	Hs.14220	4.00E-74	1	p53 regulated PA26 nuclear protein (PA26), mRN
458D2	127	536	NM_018648	Hs.14317	0	1	nudix (nucleoside diphosphate linked moiety
167G1	30	198	AK022939	Hs.14347	3.00E-91	1	hypothetical protein FLJ20450 (FLJ20450), mR
117H10	975	1721	NM_003022	Hs.14368	0	1	nucleolar protein family A, member 3 (HACA sm
591B12	1082	1801	NM_001614	Hs.14376	0	1	cDNA FLJ12877 fis, clone NT2RP2003825 /cds=(3
179H3	1160	1791	X04098	Hs.14376	1.00E-178	5	SH3 domain binding glutamic acid-rich protein
116D9	5818	6073	NM_012199	Hs.14520	5.00E-84	1	actin, gamma 1 (ACTG1), mRNA /cds=(74,1201) /g
64D11	1901	2506	NM_003592	Hs.14541	0	1	cytoskeletal gamma-actin /cds=(73,1200) /g
516F4	750	1331	AK025166	Hs.14555	0	1	eukaryotic translation initiation factor 2C,
459G5	1	260	AK025269	Hs.14562	5.00E-88	1	cullin 1 (CUL1), mRNA /cds=(124,2382) /gb=NM_0
521B7	7	1825	NM_005335	Hs.14601	0	8	cDNA: FLJ21513 fis, clone COL05778 /cds=UNKNOW
110D7	7	1295	X16663	Hs.14601	0	3	cDNA: FLJ21616 fis, clone COL07477 /cds=(119,1
114D11	1460	1559	NM_003584	Hs.14611	1.00E-45	1	hematopoietic cell-specific Lyn substrate 1
589A3	1665	2197	NM_016293	Hs.14770	0	2	HS1 gene for hematopoietic lineage cell specific pro
104C8	2113	2380	AB031050	Hs.14805	1.00E-135	2	dual specificity phosphatase 11 (RNA/RNP comp
481D10	2466	2694	NM_013272	Hs.14805	1.00E-68	1	bridging integrator.2 (BIN2), mRNA /cds=(38,17
125B2	2704	3183	NM_001455	Hs.14845	0	1	for organic anion transporter OATP-D, com
500D7	2174	2379	AL050021	Hs.14846	1.00E-100	1	solute carrier family 21 (organic anion transp
123B5	1793	2195	NM_016598	Hs.14896	0	1	forkhead box O3A (FOXO3A), mRNA /cds=(924,2945
499E2	1266	1549	AB020644	Hs.14945	1.00E-155	3	mRNA; cDNA DKFZp564D016 (from clone
123H6	2980	3652	NM_007192	Hs.14963	0	3	DKFZp564D0
61G10	264	528	D13627	Hs.15071	1.00E-144	1	DHHC1 protein (LOC51304), mRNA /cds=(214,1197
							mRNA for KIAA0837 protein, partial cds /cds=(0
							chromatin-specific transcription elongation
							KIAA0002 gene, complete cds /cds=(28,1674) /



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

460D10	2162	4305	NM_014837	Hs.15087	0	4	KIAA0250 gene product (KIAA0250), mRNA /cds=(
176E12	9289	9739	NM_022473	Hs.15220	0	1	zinc finger protein 106 (ZFP106), mRNA /cds=(3
487E11	1561	1989	NM_006170	Hs.15243	0	1	nucleolar protein 1 (120kD) (NOL1), mRNA /cds=
75E11	1628	2201	AF127139	Hs.15259	0	20	Bcl-2-binding protein BIS (BIS) mRNA, complete
71H9	1656	2532	NM_004281	Hs.15259	0	12	BCL2-associated athanogene 3 (BAG3), mRNA /cd
484G9	465	1006	NM_005826	Hs.15265	0	1	heterogeneous nuclear ribonucleoprotein R (
480H8	2013	2635	AB037828	Hs.15370	0	1	mRNA for KIAA1407 protein, partial cds /cds=(0
587G9	2436	2769	AK024088	Hs.15423	1.00E-167	1	cDNA FLJ14026 fis, clone HEMBA1003679, weakly
483D6	5239	5810	NM_004774	Hs.15589	0	1	PPAR binding protein (PPARBP), mRNA /cds=(235,
514A7	673	942	NM_006833	Hs.15591	1.00E-151	1	COP9 subunit 6 (MOV34 homolog, 34 kD) (MOV34-34
125A2	522	746	NM_024348	Hs.15561	1.00E-112	1	dynactin 3 (p22) (DCTN3), transcript variant
591A5	295	704	NM_005005	Hs.15977	0	3	NADH dehydrogenase (ubiquinone) 1 beta subcom
39H12	1641	1993	X74262	Hs.16003	1.00E-180	1	RbAp48 mRNA encoding retinoblastoma binding prot
113A9	1328	1891	NM_016334	Hs.16085	0	1	putative G-protein coupled receptor (SH120),
45C2	765	1674	NM_006461	Hs.16244	0	2	mitotic spindle coiled-coil related protein (
494H10	113	2576	NM_016312	Hs.16420	0	3	Npw38-binding protein NpwBP (LOC51729), mRNA
40D8	52	246	Y13710	Hs.16530	1.00E-107	1	for alternative activated macrophage spe
597E7	244	524	AL523085	Hs.16648	1.00E-147	1	AL523085 cDNA /clone=CS0DC001YF21-(5-prime)
458D11	232	319	AY007106	Hs.16773	1.00E-42	1	clone TCCGIA00427 mRNA sequence
70F2	824	991	AL021786	Hs.17109	2.00E-90	2	/cds=UNKNOWN
167C5	5768	5905	D86964	Hs.17211	3.00E-62	1	DNA sequence from PAC 696H22 on chromosome
460H2	3424	3624	AL162070	Hs.17377	1.00E-103	1	Xq21.1-21.2
70G11	1384	1885	AK023680	Hs.17448	0	2	mRNA for KIAA0209 gene, partial cds /cds=(0,5530)
129C11	2458	3044	U47924	Hs.17483	0	2	/gb
467H3	4713	4908	NM_014521	Hs.17667	1.00E-61	1	mRNA; cDNA DKFZp762H186 (from clone
71A11	100	370	BG035218	Hs.17719	1.00E-142	1	DKFZp762H1
598C7	513	902	NM_021622	Hs.17757	1.00E-178	1	FLJ13618 fis, clone PLACE1010925 /cds=UNK
595A7	3296	5680	AB046774	Hs.17767	0	5	chromosome 12p13 sequence /cds=(194,1570)
58D12	6225	5857	AB007861	Hs.17803	0	1	/gb=U4792
524G8	357	809	NM_014350	Hs.17839	0	1	SH3-domain binding protein 4 (SH3BP4), mRNA /
521B10	1008	1476	NM_002707	Hs.17883	0	2	602324727F1 cDNA, 5' end /clone=IMAGE:4412910
69B12	1014	1490	Y13936	Hs.17883	0	1	
178E6	1903	4365	NM_014827	Hs.17969	0	3	pleckstrin homology domain-containing, fam1
173H3	481	2362	AK001630	Hs.18063	0	4	mRNA for KIAA1554 protein, partial cds /cds=(0
113A8	1285	1393	NM_005606	Hs.18069	5.00E-48	1	KIAA0401 mRNA, partial cds /cds=(0,1036) /gb=
118H9	3709	3950	AB020677	Hs.18166	1.00E-125	1	TNF-induced protein (GG2-1), mRNA /cds=(197,7
513H7	2204	2757	NM_005839	Hs.18192	1.00E-112	3	protein phosphatase 1G (formerly 2C), magnesi
523G9	507	768	AB044661	Hs.18259	1.00E-147	1	for protein phosphatase 2C gamma /cds=(24,
105B9	695	1115	AJ010842	Hs.18259	0	1	KIAA0663 gene product (KIAA0663), mRNA /cds=(
589D12	335	715	NM_016565	Hs.18552	0	2	
170C8	414	737	AF072860	Hs.18571	0	2	cDNA FLJ10768 fis, clone NT2RP4000150 /cds=UN
189A12	414	736	NM_003690	Hs.18571	0	1	
134B9	2751	3057	AB046808	Hs.18587	1.00E-165	1	protease, cysteine, 1 (legumain) (PRSC1), mRN
519G5	1291	1581	NM_012332	Hs.18625	1.00E-157	2	mRNA for KIAA0870 protein, partial cds /cds=(0
526H2	827	1205	NM_004208	Hs.18720	0	1	Ser/Arg-related nuclear matrix protein (plen
							XAB1 mRNA for XPA binding protein 1, complete c
							for putative ATP(GTP)-binding protein, p
							E2IG2 protein (LOC51287), mRNA /cds=(131,421)
							protein activator of the Interferon-Induced p
							protein kinase, Interferon-inducible double
							mRNA for KIAA1588 protein, partial cds /cds=(2
							Mitochondrial Acyl-CoA Thioesterase (MT-ACT4
							programmed cell death 8 (apoptosis-inducing f

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

462F12	409	556	NM_017899	Hs.18791	2.00E-78	1	hypothetical protein FLJ20607 (FLJ20607), mR
138B2	388	995	AF003938	Hs.18792	0	1	thioredoxin-like protein complete cds
36G12	935	1272	AJ250014	Hs.18827	0	2	for Familial Cylindromatosis cyld gene /
194D3	924	2123	NM_018253	Hs.18851	0	2	hypothetical protein FLJ10875 (FLJ10875), mR
523E1	3653	4056	NM_012290	Hs.18895	0	1	tousled-like kinase 1 (TLK1), mRNA /cds=(212,2
587G5	1	350	NM_016302	Hs.18925	1.00E-166	1	protein x 0001 (LOC51185), mRNA /cds=(33,1043)
595C10	161	1281	AC006042	Hs.18987	0	4	BAC clone RP11-505D17 from 7p22-p21 /cds=(0,12
125G10	54	752	NM_002492	Hs.19236	0	3	NADH dehydrogenase (ubiquinone) 1 beta subcom
478G7	1	193	NM_021603	Hs.19520	9.00E-51	1	FXFD domain-containing ion transport regulat
595F11	3623	3736	AB051481	Hs.19597	3.00E-49	1	mRNA for KIAA1694 protein, partial cds /cds=(0
177C6	284	671	AF161339	Hs.19807	0	2	HSPC076 mRNA, partial cds /cds=(0,301) /gb=AF
37E12	3485	3919	AB018298	Hs.19822	0	1	for KIAA0755 protein, complete cds /cds=(
64G8	962	1311	NM_001902	Hs.19904	0	1	cystathionase (cystathionine gamma-lyase) (
499D5	2829	3183	AB011169	Hs.20141	0	1	mRNA for KIAA0597 protein, partial cds /cds=(0,
40D11	62	684	NM_004166	Hs.20144	0	1	small inducible cytokine subfamily A (Cys-Cys
66C10	1240	2240	U76248	Hs.20191	0	12	hSIAH2 mRNA, complete cds /cds=(526,1500) /gb=U76248
586B12	1686	4288	AB040922	Hs.20237	0	2	mRNA for KIAA1489 protein, partial cds /cds=(1
173G8	2578	3197	AL096776	Hs.20252	0	1	DNA sequence from clone RP4-646B12 on chromosome 1q42
98C6	3303	4699	AB051487	Hs.20281	0	6	mRNA for KIAA1700 protein, partial cds /cds=(1
107H11	781	1380	AK022103	Hs.20281	0	1	FLJ12041 fis, clone HEMBB1001945 /cds=UNK
121B8	778	1264	NM_001548	Hs.20315	0	1	interferon-induced protein with tetratricope
110C4	1050	1431	AF244137	Hs.20597	0	1	hepatocellular carcinoma-associated antigen
99H6	899	1412	NM_014315	Hs.20597	0	2	host cell factor homolog (LCP), mRNA /cds=(316,
152B12	69	424	AK025446	Hs.20760	0	1	FLJ21793 fis, clone HEP00466 /cds=UNKNOWN
459A8	1858	2143	AL021366	Hs.20830	1.00E-155	1	DNA sequence from cosmid ICK0721Q on chromosome
587A11	720	1080	AL137576	Hs.21015	0	1	mRNA; cDNA DKFZp564L0864 (from clone DKFZp564L
191E12	1688	2235	AK025019	Hs.21056	0	2	cDNA: FLJ21366 fis, clone COL03012, highly sim
52G3	225	1652	NM_005880	Hs.21189	0	6	HIRA interacting protein 4 (dnaJ-like) (HIRIP
181B7	3178	3316	AB018325	Hs.21264	3.00E-72	1	mRNA for KIAA0782 protein, partial cds /cds=(0
45E11	1378	1518	NM_003115	Hs.21293	1.00E-72	1	UDP-N-acetylglucosamine pyrophosphorylase
109G1	2989	3487	AB032948	Hs.21356	0	1	for KIAA1122 protein, partial cds /cds=(0
116D4	5522	5741	NM_016936	Hs.21479	1.00E-107	1	ubiquitin 1 (UBN1), mRNA /cds=(114,3518) /gb
37G10	294	3960	M97935	Hs.21486	0	4	transcription factor ISGF-3 mRNA, complete cd
599E8	329	3568	NM_007315	Hs.21486	0	6	signal transducer and activator of transcripti
592D10	2223	3204	NM_002709	Hs.21537	0	3	protein phosphatase 1, catalytic subunit, bet
68A7	1327	1612	AB028958	Hs.21542	1.00E-161	1	for KIAA1035 protein, partial cds /cds=(0
72B3	2519	2862	L03426	Hs.21595	1.00E-179	1	XE7 mRNA, complete alternate coding regions /cds=(166
592E6	2520	2854	NM_005088	Hs.21595	1.00E-161	1	DNA segment on chromosome X and (unique) 155 ex
589G6	190	522	AL573787	Hs.21732	1.00E-141	1	AL573787 cDNA /clone=CS0DI055YM17-(3-prime)
593H1	452	899	NM_005875	Hs.21756	0	2	translation factor sul1 homolog (GC20), mRNA
59B8	2893	3273	NM_012406	Hs.21807	0	1	PR domain containing 4 (PRDM4), mRNA /cds=(122,
196A9	12	543	AL562895	Hs.21812	0	1	AL562895 cDNA /clone=CS0DC021YO20-(3-prime)
67D8	62	631	AW512498	Hs.21879	1.00E-150	3	xx75e03.x1 cDNA, 3' end /clone=IMAGE:2849500
477B6	1969	2520	D84454	Hs.21899	0	1	mRNA for UDP-galactose translocator, complete cds /c
515D1	2232	2647	NM_007067	Hs.21907	0	2	histone acetyltransferase (HBOA), mRNA /cds=
100F8	1082	1508	AK022554	Hs.21938	0	1	FLJ12492 fis, clone NT2RM2001632, weakly
470E4	1135	1244	NM_020239	Hs.22065	4.00E-45	2	small protein effector 1 of Cdc42 (SPEC1), mRNA
68G4	1391	2013	AK022057	Hs.22265	0	2	FLJ11995 fis, clone HEMBB1001443, highly
193H6	922	1328	NM_022494	Hs.22353	1.00E-178	1	hypothetical protein FLJ21952 (FLJ21952), mR
151D2	1492	1694	AL049951	Hs.22370	4.00E-88	1	cDNA DKFZp564O0122 (from clone DKFZp564O

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

497E8	1581	4794	D83781	Hs.22559	0	3	mRNA for KIAA0197 gene, partial cds /cds=(0,3945) /gb
182D10	999	1830	AL117513	Hs.22583	0	5	mRNA; cDNA DKFZp434K2235 (from clone DKFZp434K
75B5	1775	2380	AF006513	Hs.22670	0	1	CHD1 mRNA, complete cds /cds=(163,5292) /gb=A
126H8	1776	2377	NM_001270	Hs.22670	0	1	chromodomain helicase DNA binding protein 1 (
73D5	1599	1696	AK025485	Hs.22678	2.00E-42	1	FLJ21832 fis, clone HEP01571 /cds=(32,15
481D11	128	562	BF968270	Hs.22790	1.00E-172	1	602269653F1 cDNA, 5' end /clone=IMAGE:4357740
74E4	724	1195	NM_012124	Hs.22857	0	1	chord domain-containing protein 1 (CHP1), mRN
459C6	813	1472	NM_012244	Hs.22891	0	1	solute carrier family 7 (cationic amino acid t
482G7	2972	3144	AB037784	Hs.22941	2.00E-93	1	mRNA for KIAA1363 protein, partial cds /cds=(0
70F12	37	846	AB020623	Hs.22960	0	3	DAM1 mRNA, complete cds /cds=(48,725) /gb=AB0
585H10	91	748	NM_005872	Hs.22960	0	1	breast carcinoma amplified sequence 2 (BCAS2)
142C8	1359	1597	AK024023	Hs.23170	1.00E-103	1	FLJ13961 fis, clone Y79AA1001236, highly
164F2	1220	1474	NM_012280	Hs.23170	1.00E-135	1	homolog of yeast SPB1 (JM23), mRNA /cds=(300,12
127F11	682	806	AL046016	Hs.23247	2.00E-58	1	DKFZp434P246_r1 cDNA, 5' end /clone=DKFZp434P
98G7	760	1368	NM_022496	Hs.23259	0	1	hypothetical protein FLJ13433 (FLJ13433), mR
470C9	2	538	AL574514	Hs.23294	0	2	AL574514 cDNA /clone=CS0DI056YA07-(3-prime)
458F12	4293	4917	AB002365	Hs.23311	0	1	mRNA for KIAA0367 gene, partial cds /cds=(0,2150) /gb
57D8	460	566	BF439063	Hs.23349	3.00E-54	1	nab70e03.x1 cDNA /clone=IMAGE /gb=BF439063 /
599G12	352	983	NM_014814	Hs.23488	0	2	KIAA0107 gene product (KIAA0107), mRNA /cds=(
112B3	2400	2715	NM_014887	Hs.23518	1.00E-172	1	hypothetical protein from BCRA2 region (CG005
167C10	1771	2107	NM_004380	Hs.23598	1.00E-175	1	CREB binding protein (Rubinstein-Taybi syndr
196G9	114	307	BF970427	Hs.23703	1.00E-101	1	602272760F1 cDNA, 5' end /clone=IMAGE:4360767
184B3	2488	2882	AK026983	Hs.23803	0	1	FLJ23330 fis, clone HEP12654 /cds=(69,13
480H4	4871	5467	AB023227	Hs.23860	0	1	mRNA for KIAA1010 protein, partial cds /cds=(0
479C12	4	190	NM_005556	Hs.23881	4.00E-91	1	keratin 7 (KRT7), mRNA /cds=(56,1465) /gb=NM_
36E7	742	1126	AL360135	Hs.23964	0	1	full length insert cDNA clone EUROIMAGE 12
598B5	544	1271	NM_005870	Hs.23964	0	12	sin3-associated polypeptide, 18kD (SAP18), m
462D8	1205	1653	NM_004790	Hs.23965	0	1	solute carrier family 22 (organic anion transp
479A5	1817	2164	NM_002967	Hs.23978	0	1	scaffold attachment factor B (SAFB), mRNA /cds
188E2	1762	2160	NM_014950	Hs.24083	0	1	KIAA0997 protein (KIAA0997), mRNA /cds=(262,2
67D2	1304	1856	AK024240	Hs.24115	0	2	FLJ14178 fis, clone NT2RP2003339 /cds=UNK
177D8	4674	5185	AF251039	Hs.24125	0	1	putative zinc finger protein mRNA, complete cd
190E1	5222	5394	NM_016604	Hs.24125	8.00E-73	1	putative zinc finger protein (LOC51780), mRNA
192A5	1517	1985	NM_003387	Hs.24143	1.00E-135	2	Wiskott-Aldrich syndrome protein interacting
170A4	1666	3280	X86019	Hs.24143	4.00E-23	1	PRPL-2 protein /cds=(204,1688) /gb=X860
480B6	1517	1937	NM_012155	Hs.24178	1.00E-133	1	microtubule-associated protein like echinode
143H11	177	656	BE877357	Hs.24181	0	2	601485590F1 cDNA, 5' end /clone=IMAGE:3887951
473D10	146	491	AW960486	Hs.24252	0	1	EST372557 cDNA /gb=AW960486 /gi=8150170 /ug=
98H1	23	562	NM_003945	Hs.24322	0	1	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar
169G2	391	638	BE612847	Hs.24349	4.00E-75	2	601452239F1 5' end /clone=IMAGE:3856304
479B12	1132	1599	AY007126	Hs.24435	0	1	clone CDABP0028 mRNA sequence /cds=UNKNOWN /g
480H9	4716	5012	NM_006048	Hs.24594	1.00E-145	1	ubiquitination factor E4B (homologous to yeas
110B10	520	1171	AL163206	Hs.24633	0	1	chromosome 21 segment HS21C006 /cds=(82,1203)
99A3	519	1000	NM_022136	Hs.24633	0	2	SAM domain, SH3 domain and nuclear localisation
109G7	2024	2350	AB037797	Hs.24684	1.00E-141	1	for KIAA1376 protein, partial cds /cds=(1
61B7	485	1656	AK024029	Hs.24719	0	4	FLJ13967 fis, clone Y79AA1001402, weakly
166C11	1216	1509	AF006516	Hs.24752	1.00E-165	1	eps8 binding protein e3B1 mRNA, complete cds /

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

464D12	168	764	NM_002882	Hs.24783	0	1	RAN binding protein 1 (RANBP1), mRNA /cds=(149
98C12	6523	8023	AB051512	Hs.25127	0	3	mRNA for KIAA1725 protein, partial cds /cds=(0
63F7	2164	2802	AL133611	Hs.25362	0	1	cDNA DKFZp434O1317 (from clone DKFZp434O
41D11	45	463	X53795	Hs.25409	0	1	R2 mRNA for an inducible membrane protein /cds=(156,95
62G6	1452	1827	V01512	Hs.25647	0	3	cellular oncogene c-fos (complete sequence) /cds=(15
593D12	1135	2111	NM_015832	Hs.25674	0	8	methyl-CpG binding domain protein 2 (MBD2), tr
172G9	2014	2371	NM_021211	Hs.25726	0	1	transposon-derived Buster1 transposase-like
106D6	432	1878	AF058696	Hs.25812	0	2	cell cycle regulatory protein p95 (NBS1) mRNA,
98A4	533	3758	NM_002485	Hs.25812	0	2	Nijmegen breakage syndrome 1 (nibrin) (NBS1),
477H5	6320	6599	NM_004638	Hs.25911	1.00E-111	3	HLA-B associated transcript-2 (D6S51E), mRNA
71F11	2070	2931	NM_019555	Hs.25951	0	3	Rho guanine nucleotide exchange factor (GEF)
164B9	2163	2502	AK023999	Hs.26039	1.00E-159	1	cDNA FLJ13937 fis, clone Y79AA1000805 /cds=UNK
100A3	2043	2620	M34658	Hs.26045	0	1	protein tyrosine phosphatase (PTPase-alpha) mRNA /c
123A5	2046	2638	NM_002836	Hs.26045	0	1	protein tyrosine phosphatase, receptor type,
466E5	7817	8241	NM_014112	Hs.26102	0	2	trichorhinophalangeal syndrome 1 gene (TRPS1)
588A1	361	857	AF070582	Hs.26118	0	1	clone 24766 mRNA sequence /cds=UNKNOWN /gb=AF
526H12	176	1809	NM_018384	Hs.26194	0	5	hypothetical protein FLJ11296 (FLJ11296), mR
149G7	96	1123	AK027016	Hs.26198	0	3	FLJ23363 fis, clone HEP15507 /cds=(206,1
122A4	1196	1332	AL050166	Hs.26295	3.00E-72	1	mRNA; cDNA DKFZp586D1122 (from clone DKFZp586D
122D5	1936	2435	AB029006	Hs.26334	0	1	mRNA for KIAA1083 protein, complete cds /cds=(
137G5	137	452	AK025778	Hs.26367	1.00E-145	1	FLJ22125 fis, clone HEP19410 /cds=(119,5
595D2	1	372	NM_022488	Hs.26367	3.00E-89	3	PC3-96 protein (PC3-96), mRNA /cds=(119,586)
64D12	1024	1135	NM_017746	Hs.26369	2.00E-57	1	hypothetical protein FLJ20287 (FLJ20287), mR
39E4	2132	2750	AK000367	Hs.26434	0	1	FLJ20360 fis, clone HEP16677 /cds=(79,230
473C10	4318	4623	AF051782	Hs.26584	1.00E-154	1	diaphanous 1 (HDIA1) mRNA, complete cds /cds=(
590C4	1740	2198	AL050205	Hs.26613	0	1	mRNA; cDNA DKFZp586F1323 (from clone DKFZp586F
523F3	454	792	AC002073	Hs.26670	1.00E-164	1	PAC clone RP3-515N1 from 22q11.2-q22 /cds=(0,791) /g
587E11	1226	1876	NM_004779	Hs.26703	0	2	CCR4-NOT transcription complex, subunit 8 (C
110G4	191	685	BE868389	Hs.26731	0	1	601444360F1 cDNA, 5' end /clone=IMAGE:3848487
110E11	1001	3955	AL117448	Hs.26797	0	2	cDNA DKFZp586B1417 (from clone DKFZp586B
152A8	12	112	AI760224	Hs.26873	2.00E-48	1	wh62g06.x1 cDNA, 3' end /clone=IMAGE:2385370
467G11	528	858	NM_016106	Hs.27023	1.00E-174	1	vesicle transport-related protein (KIAA0917)
465E11	634	1065	AL136656	Hs.27181	3.00E-83	1	mRNA; cDNA DKFZp564C1664 (from clone DKFZp564C
58E11	1	551	AJ238243	Hs.27182	0	1	mRNA for phospholipase A2 activating protein
590H2	398	1016	NM_014412	Hs.27258	0	1	calcyclin binding protein (CACYBP), mRNA /cds
179E9	1039	1905	AK025586	Hs.27268	0	4	FLJ21933 fis, clone HEP04337 /cds=UNKNOWN
459D7	1293	1936	AL050061	Hs.27371	0	1	mRNA; cDNA DKFZp566J123 (from clone DKFZp566J1
54A11	709	1542	AK022811	Hs.27475	0	1	FLJ12749 fis, clone NT2RP2001149 /cds=UNK
111A5	42	686	NM_022485	Hs.27556	0	1	hypothetical protein FLJ22405 (FLJ22405), mR
123D4	879	1005	NM_016059	Hs.27693	3.00E-49	1	peptidylprolyl isomerase (cyclophilin)-like
518E11	1245	2235	AF332469	Hs.27721	0	5	putative protein WHSC1L1 (WHSC1L1) mRNA, comp
103B11	631	1343	NM_014805	Hs.28020	0	1	KIAA0766 gene product (KIAA0766), mRNA /cds=(
479H3	4	100	AB007928	Hs.28169	7.00E-37	1	mRNA for KIAA0459 protein, partial cds /cds=(0
526B3	1901	1995	NM_007218	Hs.28285	4.00E-47	1	patched related protein translocated in renal
480E4	4088	4596	AB046766	Hs.28338	0	1	mRNA for KIAA1546 protein, partial cds /cds=(0
164D10	651	970	NM_002970	Hs.28491	1.00E-163	2	spermidine/spermine N1-acetyltransferase (
69E10	729	1588	AB007868	Hs.28578	0	2	KIAA0428 mRNA, complete cds /cds=(1414,2526)
49B1	632	4266	NM_021038	Hs.28578	0	4	muscleblind (Drosophila)-like (MBNL), mRNA /

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

173A10	2105	2391	AL034548	Hs.28608	1.00E-161	2	DNA sequence from clone RP5-1103G7 on chromosome 20p1
156H8	467	585	AV691642	Hs.28739	8.00E-43	1	AV691642 5' end /clone=GKCDJG11 /clone_
588D3	444	909	NM_004800	Hs.28757	1.00E-123	1	transmembrane 9 superfamily member 2 (TM9SF2)
493B12	500	930	NM_003512	Hs.28777	0	1	H2A histone family, member L (H2AFL), mRNA /cd
115C5	63	661	BF341640	Hs.28788	0	1	602016073F1 cDNA, 5' end /clone=IMAGE:4151706
524C10	37	412	NM_007217	Hs.28866	1.00E-179	1	programmed cell death 10 (PDCD10), mRNA /cds=(
39A8	1380	1873	AK000196	Hs.29052	0	1	FLJ20189 fis, clone COLF0657 /cds=(122,84
477H7	690	1047	NM_005859	Hs.29117	1.00E-163	1	purine-rich element binding protein A (PURA),
134C8	2462	2789	NM_002894	Hs.29287	1.00E-173	1	retinoblastoma-binding protein 8 (RBBP8), mR
108A11	182	992	M31165	Hs.29352	0	9	tumor necrosis factor-inducible (TSG-6) mRNA fragme
99E8	179	992	NM_007115	Hs.29352	0	7	tumor necrosis factor, alpha-induced protein
169B3	2219	2683	AF039942	Hs.29417	0	1	HCF-binding transcription factor Zhangfei (Z
526A7	2219	2670	NM_021212	Hs.29417	0	1	HCF-binding transcription factor Zhangfei (Z
184H12	2380	4852	AB033042	Hs.29679	0	2	KIAA1216 protein, partial cds /cds=(0
125G9	1169	1814	AB037791	Hs.29716	0	1	mRNA for KIAA1370 protein, partial cds /cds=(4
68F3	1011	1892	AK027197	Hs.29797	0	5	FLJ23544 fis, clone LNG08336 /cds=(125,5
72H12	2103	2564	L27071	Hs.29877	0	2	tyrosine kinase (TXK) mRNA, complete cds /cds=(86,166
588D5	793	1321	NM_003328	Hs.29877	0	1	TXK tyrosine kinase (TXK), mRNA /cds=(86,1669)
127C3	1	1424	AK024961	Hs.29977	0	4	cDNA: FLJ21308 fis, clone COL02131 /cds=(287,1
128H7	351	977	NM_014188	Hs.30026	0	1	HSPC182 protein (HSPC182), mRNA /cds=(65,649)
521G4	502	1260	NM_004593	Hs.30035	0	4	splicing factor, arginine/serine-rich (trans
47A2	503	1265	U61267	Hs.30035	0	4	putative splice factor transformer2-beta mRN
37G9	1287	1763	M16967	Hs.30054	0	2	coagulation factor V mRNA, complete cds /cds=(90,6764
459E1	43	536	NM_015919	Hs.30303	0	1	Kruppel-associated box protein (LOC51595), m
465F6	256	573	NM_005710	Hs.30570	7.00E-75	1	polyglutamine binding protein 1 (PQB1), mRNA
120H1	5305	5634	NM_012296	Hs.30687	1.00E-172	2	GRB2-associated binding protein 2 (GAB2), mRN
189G2	1	147	BG260954	Hs.30724	2.00E-68	1	602372562F1 cDNA, 5' end /clone=IMAGE:4480647
482E6	3086	3254	AK023743	Hs.30818	4.00E-91	1	cDNA FLJ13681 fis, clone PLACE2000014, weakly
179H5	20	1232	AK001972	Hs.30822	0	2	FLJ11110 fis, clone PLACE1005921, weakly
598B6	1	1169	NM_018326	Hs.30822	0	19	hypothetical protein FLJ11110 (FLJ11110), mR
128G10	1309	2463	AK000689	Hs.30882	0	18	cDNA FLJ20682 fis, clone KIAA3543, highly simi
126G7	5221	5904	NM_019081	Hs.30909	1.00E-163	2	KIAA0430 gene product (KIAA0430), mRNA /cds=(
483D1	1481	2098	NM_003098	Hs.31121	0	1	syntrophin, alpha 1(dystrophin-associated p
464C9	1188	1755	NM_003273	Hs.31130	0	1	transmembrane 7 superfamily member 2 (TM7SF2),
478A6	3024	3837	NM_012238	Hs.31176	1.00E-176	2	sir2-like 1 (SIRT1), mRNA /cds=(53,2296) /gb=
122E5	1060	1294	NM_002893	Hs.31314	1.00E-113	1	retinoblastoma-binding protein 7 (RBBP7), mR
117B1	2056	2489	AF153419	Hs.31323	0	1	IkappaBkinase complex-associated protein (I
462E10	337	569	AV752358	Hs.31409	1.00E-108	1	AV752358 cDNA, 5' end /clone=NPDBHG03 /clone_
126E7	1962	2748	AB014548	Hs.31921	0	2	mRNA for KIAA0648 protein, partial cds /cds=(0
186G11	729	954	BC000152	Hs.31989	1.00E-125	1	Similar to DKFZP586G1722 protein, clone MGC:
67H7	1705	2336	AJ400877	Hs.32017	0	2	ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf1
102B11	175	874	AK026455	Hs.32148	0	1	FLJ22802 fis, clone KIAA2682, highly sim
458D4	46	449	H14103	Hs.32149	1.00E-167	1	ym62a02.r1 cDNA, 5' end /clone=IMAGE:163466 /
99A2	3991	4532	AB007902	Hs.32168	0	1	KIAA0442 mRNA, partial cds /cds=(0,3519) /gb=
458G5	27	540	N30152	Hs.32250	0	1	yx81f03.s1 cDNA, 3' end /clone=IMAGE:268157 /
112D11	4399	5040	NM_005922	Hs.32353	0	1	mitogen-activated protein kinase kinase kina
48C8	3278	3988	AB002377	Hs.32556	0	2	mRNA for KIAA0379 protein, partial cds /cds=(0,
515F9	761	989	NM_003193	Hs.32675	1.00E-116	1	tubulin-specific chaperone e (TBCE), mRNA /c
158C12	342	809	NM_016063	Hs.32826	0	1	CGI-130 protein (LOC51020), /cds=(63,575
586E6	128	512	NM_005594	Hs.32916	0	3	nascent-polypeptide-associated complex alp
459B5	1271	1972	NM_017632	Hs.32922	0	1	hypothetical protein FLJ20036 (FLJ20036), mR

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

469G12	2711	2978	NM_001566	Hs.32944	1.00E-136	1	Inositol polyphosphate-4-phosphatase, type
71B7	483	1787	NM_003037	Hs.32970	0	29	signaling lymphocytic activation molecule (S
74G1	1	1780	U33017	Hs.32970	0	33	signaling lymphocytic activation molecule (SLAM) mRNA
473B11	2993	3361	NM_006784	Hs.33085	1.00E-111	1	WD repeat domain 3 (WDR3), mRNA /cds=(47,2878)
56B5	23	578	AB019571	Hs.33190	0	1	expressed only in placental villi, clone
469D12	187	394	AL359654	Hs.33756	1.00E-110	1	mRNA full length insert cDNA clone EUROIMAGE 19
98H8	371	618	AI114652	Hs.33757	3.00E-98	1	HA1247 cDNA /gb=AI114652 /gi=6359997 /ug=Hs.
594E7	2134	2320	NM_012123	Hs.33979	5.00E-93	1	CGI-02 protein (CGI-02), mRNA /cds=(268,2124)
110D1	1158	1349	NM_018579	Hs.34401	1.00E-105	1	hypothetical protein PRO1278 (PRO1278), mRNA
596A6	1950	2144	NM_022766	Hs.34516	1.00E-102	2	hypothetical protein FLJ23239 (FLJ23239), mR
37B10	237	563	AI123826	Hs.34549	1.00E-145	1	ow61c10.x1 cDNA, 3' end /clone=IMAGE:1651314
458H4	3656	4415	AB040929	Hs.35089	0	1	mRNA for KIAA1496 protein, partial cds /cds=(0
100D1	3563	3777	D25215	Hs.35804	1.00E-105	1	KIAA0032 gene, complete cds /cds=(166,3318)
519A12	402	623	AW960004	Hs.36475	3.00E-48	1	EST372075 cDNA /gb=AW960004 /gi=8149688 /ug=
498H2	11143	11490	NM_000081	Hs.36508	0	1	Chediak-Higashi syndrome 1 (CHS1), mRNA /cds=(
521D6	304	791	NM_002712	Hs.36587	0	2	protein phosphatase 1, regulatory subunit 7 (
460E1	1200	1542	AF319476	Hs.36752	0	2	GKAP42 (FKSG21) mRNA, complete cds /cds=(174,1
184G9	498	1191	AF082569	Hs.36794	0	2	D-type cyclin-interacting protein 1 (DIP1) mR
462D3	493	1517	NM_012142	Hs.36794	0	3	D-type cyclin-interacting protein 1 (DIP1), m
74E12	659	3054	D86956	Hs.36927	0	23	KIAA0201 gene, complete cds /cds=(347,2923)
58G5	1268	2888	NM_006644	Hs.36927	0	12	heat shock 105kD (HSP105B), mRNA /cds=(313,275
52C10	1479	2588	AK022546	Hs.37747	0	2	FLJ12484 fis, clone NT2RM1001102, weakly
479F9	2066	2322	AL136932	Hs.37892	1.00E-119	1	mRNA; cDNA DKFZp586H1322 (from clone DKFZp586H
483C2	2222	2723	NM_003173	Hs.37936	0	1	suppressor of variegation 3-9 (Drosophila) ho
593G6	673	1213	NM_004510	Hs.38125	0	1	interferon-induced protein 75, 52kD (IFI75),
101G12	118	436	N39230	Hs.38218	1.00E-173	1	yy50c03.s1 cDNA, 3' end /clone=IMAGE:276964 /
107E5	238	525	AW188135	Hs.38664	1.00E-158	1	xj92g04.x1 cDNA, 3' end /clone=IMAGE:2664726
596F2	9	504	BF892532	Hs.38664	0	9	ILO-MT0152-061100-501-e04 cDNA /gb=BF892532
469D7	47	474	NM_014343	Hs.38738	0	1	claudin 15 (CLDN15), mRNA /cds=(254,940) /gb=
166H8	1	81	BF103848	Hs.39457	9.00E-34	1	601647352F1 cDNA, 5' end /clone=IMAGE:3931452
465F3	157	296	NM_017859	Hs.39850	2.00E-47	1	hypothetical protein FLJ20517 (FLJ20517), mR
195C12	2684	2944	NM_000885	Hs.40034	1.00E-146	1	integrin, alpha 4 (antigen CD49D, alpha 4 subu
151F11	1393	1661	AL031427	Hs.40094	6.00E-81	1	DNA sequence from clone 167A19 on chromosome 1p32.1-33
134C12	4532	4802	NM_004973	Hs.40154	1.00E-114	1	jumonji (mouse) homolog (JMJ), mRNA /cds=(244,
115C9	5279	5614	AB033085	Hs.40193	1.00E-157	1	mRNA for KIAA1259 protein, partial cds /cds=(1
119A8	862	2087	NM_006152	Hs.40202	0	3	lymphoid-restricted membrane protein (LRMP),
104D4	924	1398	U10485	Hs.40202	0	2	lymphoid-restricted membrane protein (Jaw1) mRNA, c
155G3	226	530	AF047472	Hs.40323	1.00E-114	1	spleen mitotic checkpoint BUB3 (BUB3) mRNA, c
521C2	233	710	NM_004725	Hs.40323	0	1	BUB3 (budding uninhibited by benzimidazoles 3
107B8	187	545	AI927454	Hs.40328	0	1	wo90a02.x1 cDNA, 3' end /clone=IMAGE:2462570
458F10	1	436	BE782824	Hs.40334	0	1	601472323F1 cDNA, 5' end /clone=IMAGE:3875501
463G6	16	496	AI266255	Hs.40411	0	1	qx69f01.x1 cDNA, 3' end /clone=IMAGE:2006617
162F1	2711	2895	D87468	Hs.40888	4.00E-96	1	KIAA0278 gene, partial cds /cds=(0,1383) /gb
463E1	70	272	AL137067	Hs.40919	1.00E-109	1	DNA sequence from clone RP11-13B9 on chromosome 9q22.
458E7	107	774	AK024474	Hs.41045	0	1	mRNA for FLJ00067 protein, partial cds /cds=(1
185G12	1051	2315	AL050141	Hs.41569	1.00E-140	11	mRNA; cDNA DKFZp586O031 (from clone DKFZp586O0
593F5	2106	2490	NM_006190	Hs.41694	0	1	origin recognition complex, subunit 2 (yeast h

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

513H4	739	1249	NM_002190	Hs.41724	0	6	interleukin 17 (cytotoxic T-lymphocyte-assoc
155F4	739	1247	U32659	Hs.41724	0	1	IL-17 mRNA, complete cds /cds=(53,520) /gb=U32659
108H12	892	1227	L40377	Hs.41726	1.00E-170	1	/g
477E7	249	404	BG033294	Hs.41989	6.00E-75	1	cytoplasmic antiproteinase 2 (CAP2) mRNA, com
							602298548F1 cDNA, 5' end /clone=IMAGE:4393186
143E2	5775	6018	AB033112	Hs.42179	1.00E-136	2	for KIAA1286 protein, partial cds /cds=(1
586B10	720	1225	NM_001952	Hs.42287	0	1	E2F transcription factor 6 (E2F6), mRNA /cds=(
583A10	346	883	NM_012097	Hs.42500	0	1	ADP-ribosylation factor-like 5 (ARL5), mRNA
459A7	152	251	BC003525	Hs.42712	2.00E-50	1	Similar to Max, clone MGC:10775, mRNA, compl
37B7	43	2687	AF006082	Hs.42915	1.00E-130	2	actin-related protein Arp2 (ARP2) mRNA, compl
120E3	512	2428	NM_005722	Hs.42915	0	3	ARP2 (actin-related protein 2, yeast) homolog
99D1	3298	3761	NM_014939	Hs.42959	0	1	KIAA1012 protein (KIAA1012), mRNA /cds=(57,43
473B2	3025	3425	AK023647	Hs.43047	1.00E-164	1	cDNA FLJ13585 fis, clone PLACE1009150 /cds=UNK
460E6	2988	3184	AB033093	Hs.43141	1.00E-105	1	mRNA for KIAA1267 protein, partial cds /cds=(9
471F7	232	575	AW993524	Hs.43148	0	1	RC3-BN0034-120200-011-h06 cDNA /gb=AW993524
460B10	402	706	BE781009	Hs.43273	1.00E-78	1	601469768F1 cDNA, 5' end /clone=IMAGE:3872704
36F6	2815	3403	AK024439	Hs.43616	0	1	for FLJ00029 protein, partial cds /cds=(0
471G3	43	454	NM_006021	Hs.43628	1.00E-165	1	deleted in lymphocytic leukemia, 2 (DLEU2), mR
184H3	1819	2128	D14043	Hs.43910	1.00E-168	2	MGC-24, complete cds /cds=(79,648) /gb=D1404
195F4	511	2370	NM_006016	Hs.43910	0	7	CD164 antigen, sialomucin (CD164), mRNA /cds=
188H9	1573	2277	NM_006346	Hs.43913	0	3	PIBF1 gene product (PIBF1), mRNA /cds=(0,2276)
177H8	1575	2272	Y09631	Hs.43913	0	2	PIBF1 protein, complete /cds=(0,2276) /
481E6	2529	2873	AB032952	Hs.44087	1.00E-159	1	mRNA for KIAA1126 protein, partial cds /cds=(0
112F5	1105	1701	AF197569	Hs.44143	0	1	BAF180 (BAF180) mRNA, complete cds /cds=(98,48
146F5	2620	3147	AL117452	Hs.44155	0	1	DKFZp586G1517 (from clone DKFZp586G
514C5	166	431	NM_018838	Hs.44163	1.00E-149	3	13kDa differentiation-associated protein (L
71D9	1117	1800	AF263613	Hs.44198	0	2	membrane-associated calcium-independent ph
68E1	289	527	AA576946	Hs.44242	4.00E-83	1	nm82b03.s1 cDNA, 3' end /clone=IMAGE:1074701
53H12	1925	2112	X75042	Hs.44313	4.00E-84	1	rel proto-oncogene mRNA /cds=(177,2036) /gb=X75
595D4	21	402	NM_017867	Hs.44344	0	1	hypothetical protein FLJ20534 (FLJ20534), mR
165B10	250	658	BC000758	Hs.44468	0	1	clone MGC:2698, mRNA, complete cds /cds=(168,
592E9	37	2422	NM_002687	Hs.44499	0	5	pinin, desmosome associated protein (PNN), mR
89F10	14	1152	Y09703	Hs.44499	0	3	MEMA protein /cds=(406,2166) /gb=Y09703
458H6	1	352	NM_015697	Hs.44563	0	1	hypothetical protein (CL640), mRNA /cds=(0,39
182C11	690	1324	AB046861	Hs.44566	0	4	mRNA for KIAA1641 protein, partial cds /cds=(6
115G3	318	731	BG288837	Hs.44577	0	1	602388170F1 cDNA, 5' end /clone=IMAGE:4517129
70B11	1879	4363	U58334	Hs.44585	0	3	Bcl2, p53 binding protein Bbp/53BP2 (BBP/53BP2)
165F10	265	496	AV726117	Hs.44656	6.00E-66	1	mRNA
							AV726117 cDNA, 5' end /clone=HTCAXB05 /clone_
36F1	444	1176	AK001332	Hs.44672	0	1	FLJ10470 fis, clone NT2RP2000032, weakly
596H1	1073	2711	AF288571	Hs.44865	0	14	lymphoid enhancer factor-1 (LEF1) mRNA, compl
41C4	2876	3407	X60708	Hs.44926	0	1	pCHDP7 mRNA for liver dipeptidyl peptidase IV
							/cds=(75
588A7	7564	7849	AL031667	Hs.45207	1.00E-158	1	DNA sequence from clone RP4-620E11 on
							chromosome 20q1
183G6	3967	4942	AB020630	Hs.45719	0	5	mRNA for KIAA0823 protein, partial cds /cds=(0
465C9	700	1325	BC002796	Hs.46446	0	1	lymphoblastic leukemia derived sequence 1,
464B1	1519	1997	NM_006019	Hs.46465	0	1	T-cell, immune regulator 1 (TCIRG1), mRNA /cds
466F10	455	518	AW974756	Hs.46476	6.00E-26	1	EST386846 cDNA /gb=AW974756 /gi=8165944 /ug=
110E7	620	1153	AF223469	Hs.46847	0	1	AD022 protein (AD022) mRNA, complete cds /cds=
112D5	818	1197	NM_016614	Hs.46847	0	4	TRAF and TNF receptor-associated protein (AD0

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

172G6	4157	4527	NM_003954	Hs.47007	0	1	mitogen-activated protein kinase kinase kina
177C8	4217	4469	Y10256	Hs.47007	1.00E-96	1	serine/threonine protein kinase, NIK /c
458H9	18	457	AW291458	Hs.47325	0	1	UI-H-BI2-agh-c-02-0-UI.s1 cDNA, 3' end /clon
62B6	562	697	BE872760	Hs.47334	7.00E-54	1	601450902F1 cDNA, 5' end /clone=IMAGE:3854544
178F12	169	2413	AF307339	Hs.47783	0	2	B aggressive lymphoma short isoform (BAL) mRNA
460G4	598	1081	NM_005985	Hs.48029	0	1	snail 1 (drosophila homolog), zinc finger prot
70D12	1	2038	AK027070	Hs.48320	0	13	FLJ23417 fis, clone HEP20868 /cds=(59,12
41G5	6587	7128	NM_014345	Hs.48433	0	1	endocrine regulator (HRIHFB2436), mRNA /cds=
516H2	1	212	NM_017948	Hs.48712	2.00E-90	2	hypothetical protein FLJ20736 (FLJ20736), mR
517G9	685	1649	NM_004462	Hs.48876	0	2	farnesyl-diphosphate farnesyltransferase 1
146A2	88	440	X76770	Hs.49007	0	1	PAP /cds=UNKNOWN /gb=X76770 /gi=556782 /ug
174H4	2612	3200	AF189011	Hs.49163	0	1	ribonuclease III (RN3) mRNA, complete cds /cds
121G3	463	829	NM_017917	Hs.49376	0	1	hypothetical protein FLJ20644 (FLJ20644), mR
170B9	2260	2948	AK023825	Hs.49391	0	1	FLJ13763 fis, clone PLACE4000089 /cds=(56
65E2	629	1798	AF062075	Hs.49587	0	4	leupaxin mRNA, complete cds /cds=(93,1253) /g
518B2	26	1798	NM_004811	Hs.49587	0	12	leupaxin (LPXN), mRNA /cds=(93,1253) /gb=NM_0
472E8	1182	1516	AL390132	Hs.49822	0	1	mRNA; cDNA DKFZp547E107 (from clone DKFZp547E1
41B12	57	576	AB000887	Hs.50002	0	1	for EBI1-ligand chemokine, complete cds
41D1	1	310	U86358	Hs.50404	1.00E-135	1	chemokine (TECK) mRNA, complete cds /cds=(0,452) /gb
107C9	2861	3541	M64174	Hs.50651	0	3	protein-tyrosine kinase (JAK1) mRNA, complete cds /c
599H12	202	3541	NM_002227	Hs.50651	0	11	Janus kinase 1 (a protein tyrosine kinase) (JAK
105E3	621	1101	AF047442	Hs.50785	0	1	vesicle trafficking protein sec22b mRNA, comp
129B5	2489	2919	X16354	Hs.50964	0	2	transmembrane carcinoembryonic antigen BGPα
587H2	748	1673	NM_000521	Hs.51043	0	2	hexosaminidase B (beta polypeptide) (HEXB), m
458H12	4043	4561	NM_000887	Hs.51077	0	1	integrin, alpha X (antigen CD11C (p150), alpha
129C9	4055	4567	Y00093	Hs.51077	0	1	leukocyte adhesion glycoprotein p150,95
125D8	2502	3966	AF016266	Hs.51233	0	3	TRAIL receptor 2 mRNA, complete cds /cds=(117,1
179E1	17	343	M22538	Hs.51299	1.00E-179	1	nuclear-encoded mitochondrial NADH-ubiquinone redu
165D7	35	754	NM_021074	Hs.51299	0	4	NADH dehydrogenase (ubiquinone) flavoprotein
107F10	2632	2993	Y11251	Hs.51957	0	2	novel member of serine-arginine domain p
195B12	1344	1590	NM_017903	Hs.52184	3.00E-96	1	hypothetical protein FLJ20618 (FLJ20618), mR
69D7	3046	3568	AB014569	Hs.52526	0	4	for KIAA0669 protein, complete cds /cds=(
55D1	2807	2847	NM_014779	Hs.52526	1.00E-130	1	KIAA0669 gene product (KIAA0669), mRNA /cds=(
480B8	1943	2062	AL080213	Hs.52792	8.00E-44	1	mRNA; cDNA DKFZp586I1823 (from clone DKFZp586I
72G7	1236	1348	NM_018607	Hs.52891	2.00E-55	1	hypothetical protein PRO1853 (PRO1853), mRNA
526D1	1	256	NM_004597	Hs.53125	1.00E-114	1	small nuclear ribonucleoprotein D2 polypeptid
458E8	1182	1701	NM_002621	Hs.53155	0	1	properdin P factor, complement (PFC), mRNA /cd
458G2	2171	2836	NM_001204	Hs.53250	0	1	bone morphogenetic protein receptor, type II
458F7	30	650	NM_002200	Hs.54434	0	1	interferon regulatory factor 5 (IRF5), mRNA /
459F12	2023	3325	NM_006060	Hs.54452	0	2	zinc finger protein, subfamily 1A, 1 (Ikaros) (
41A6	498	755	U46573	Hs.54460	1.00E-140	1	eotaxin precursor mRNA, complete cds /cds=(53,346) /
590A10	243	659	NM_004688	Hs.54483	0	2	N-myc (and STAT) interactor (NMI), mRNA /cds=(
461C11	872	1415	NM_014291	Hs.54609	0	1	glycine C-acetyltransferase (2-amino-3-keto
170H5	412	1630	AJ243721	Hs.54642	0	3	for dTDP-4-keto-6-deoxy-D-glucose 4-re
521F5	270	1491	NM_013283	Hs.54642	0	8	methionine adenosyltransferase II, beta (MAT
189H5	737	1049	X76302	Hs.54649	1.00E-131	2	H.sapiens RY-1 mRNA for putative nucleic acid binding protei
599D10	2614	3035	AB029015	Hs.54886	0	5	mRNA for KIAA1092 protein, partial cds /cds=(0
458D5	1026	1676	AK027243	Hs.54890	0	1	cDNA: FLJ23590 fis, clone LNG14491 /cds=(709,1
37A10	1633	2040	AK026024	Hs.55024	0	1	FLJ22371 fis, clone HRC06680 /cds=(77,12
121A8	799	1217	NM_018053	Hs.55024	1.00E-160	1	hypothetical protein FLJ10307 (FLJ10307), mR



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

460B1	11195	11326	AF231023	Hs.55173	1.00E-45	1	protocadherin Flamingo 1 (FMI1) mRNA, complete
57F1	1450	2070	NM_003447	Hs.55481	0	2	zinc finger protein 165 (ZNF165), mRNA /cds=(5
68D10	979	2070	U78722	Hs.55481	0	4	zinc finger protein 165 (Zpf165) mRNA, complete
584G7	268	1674	NM_003753	Hs.55682	0	4	eukaryotic translation initiation factor 3,
161C8	63	394	NM_017897	Hs.55781	1.00E-177	1	hypothetical protein FLJ20604 (FLJ20604), mR
588F6	1	387	NM_016497	Hs.55847	0	1	hypothetical protein (LOC51258), mRNA /cds=(
597E10	334	2073	NM_004446	Hs.55921	0	5	glutamyl-prolyl-tRNA synthetase (EPRS), mRN
138H10	3603	4112	X54326	Hs.55921	0	1	glutamyl-tRNA synthetase /cds=(58,43
121D5	3959	4192	AB018348	Hs.55947	1.00E-130	1	mRNA for KIAA0805 protein, partial cds /cds=(0
473D12	1428	1866	AJ245539	Hs.55968	0	2	partial mRNA for GalNAc-T5 (GALNT5 gene) /cds=
71E3	843	1724	NM_005542	Hs.56205	0	30	Insulin induced gene 1 (INSIG1), mRNA /cds=(414
73F4	843	2495	U96876	Hs.56205	0	32	insulin induced protein 1 (INSIG1) gene, compl
75C8	180	2439	AJ277832	Hs.56247	0	13	for Inducible T-cell co-stimulator (ICOS
187A6	2073	2255	AF195530	Hs.56542	2.00E-99	1	soluble aminopeptidase P (XPNPEP1) mRNA, comp
584H5	1496	1889	NM_001494	Hs.56845	1.00E-151	1	GDP dissociation inhibitor 2 (GDI2), mRNA /cds
460C5	2395	2860	AK022936	Hs.56847	0	1	cDNA FLJ12874 fis, clone NT2RP2003769 /cds=UNK
460B5	164	741	BC003581	Hs.56851	0	1	Similar to RIKEN cDNA 2900073H19 gene, clone
54G4	1359	1761	AK027232	Hs.57209	0	2	FLJ23579 fis, clone LNG13017 /cds=UNKNOWN
192D8	1576	2872	AL136703	Hs.57209	0	3	mRNA; cDNA DKFZp566J091 (from clone DKFZp566J0
66F9	618	1056	U41654	Hs.57304	0	1	adenovirus protein E3-14.7k interacting protein 1 (
183A1	2093	2334	NM_003751	Hs.57783	1.00E-132	1	eukaryotic translation initiation factor 3,
117B3	6933	7225	NM_022898	Hs.57987	1.00E-154	3	B-cell lymphoma/leukaemia 11B (BCL11B), mRNA
74C11	273	359	BE739287	Hs.58066	7.00E-21	1	601556492F1 cDNA, 5' end /clone=IMAGE:3826247
174H2	5591	5977	AJ131693	Hs.58103	0	1	mRNA for AKAP450 protein /cds=(222,11948) /gb
599H8	26	993	NM_003756	Hs.58189	0	3	eukaryotic translation initiation factor 3,
168F12	295	593	U54559	Hs.58189	1.00E-166	1	translation initiation factor eIF3 p40 subunit
68B11	1	297	BE867841	Hs.58297	1.00E-146	1	601443614F1 cDNA, 5' end /clone=IMAGE:3847827
104A6	376	2578	AF001862	Hs.58435	0	3	FYN binding protein mRNA, complete cds /cds=(67
192E3	230	648	NM_001465	Hs.58435	0	4	FYN-binding protein (FYB-120/130) (FYB), mRN
73B4	1287	1763	AK022834	Hs.58488	0	1	FLJ12772 fis, clone NT2RP2001634, highly
100G3	1568	1786	NM_004850	Hs.58617	1.00E-108	1	Rho-associated, coiled-coil containing prot
116G9	1997	2464	NM_013352	Hs.58636	0	1	squamous cell carcinoma antigen recognized by
178C6	5	710	AV760147	Hs.58643	1.00E-111	5	AV760147 cDNA, 5' end /clone=MDSEP12 /clone_
519B1	2203	2320	NM_014207	Hs.58685	1.00E-56	1	CD5 antigen (p56-62) (CD5), mRNA /cds=(72,1559
40B6	1655	2283	X04391	Hs.58685	0	1	lymphocyte glycoprotein T1/Leu-1 /cds=(72,1
466B9	262	534	AI684437	Hs.58774	1.00E-107	1	wa82a04.x1 cDNA, 3' end /clone=IMAGE:2302638
480H7	86	234	NM_006568	Hs.59106	1.00E-54	1	cell growth regulatory with ring finger domain
44A7	2229	2703	X17094	Hs.59242	0	1	fur mRNA for furin /cds=(216,2600) /gb=X17094 /gi=314
106D12	21	380	M96982	Hs.59271	0	2	U2 snRNP auxiliary factor small subunit, compl
39C5	1821	2653	AB011098	Hs.59403	0	1	for KIAA0526 protein, complete cds /cds=(
185H7	1826	2352	NM_004863	Hs.59403	0	1	serine palmitoyltransferase, long chain base
459C5	126	443	AA889552	Hs.59459	1.00E-158	1	ak20d12.s1 cDNA, 3' end /clone=IMAGE:1406519
108B8	2760	3079	AJ132592	Hs.59757	1.00E-138	1	for zinc finger protein, 3115 /cds=(107,27
194F7	2074	2461	NM_018227	Hs.59838	0	1	hypothetical protein FLJ10808 (FLJ10808), mR
465D4	2	132	AI440512	Hs.59844	7.00E-67	1	tc83f09.x1 cDNA, 3' end /clone=IMAGE:2072777
161H10	1	381	AA004799	Hs.60088	1.00E-169	1	zh96b05.s1 cDNA, 3' end /clone=IMAGE:429105 /
465B8	228	383	NM_018986	Hs.61053	1.00E-66	1	hypothetical protein (FLJ20356), mRNA /cds=(
102G9	359	725	D11094	Hs.61153	0	1	MSS1, complete cds /cds=(66,1367) /gb=D11094
193C6	359	725	NM_002803	Hs.61153	1.00E-174	2	proteasome (prosome, macropain) 26S subunit,
99E7	1768	2339	AL023653	Hs.61469	0	10	DNA sequence from clone 753P9 on chromosome Xq25-26.1.
462B9	5	411	BE779284	Hs.61472	1.00E-152	1	601464557F1 cDNA, 5' end /clone=IMAGE:3867566
594F11	220	569	NM_003905	Hs.61828	1.00E-159	2	amyloid beta precursor protein-binding prote

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

102E7	1216	1921	AF046001	Hs.62112	0	3	zinc finger transcription factor (ZNF207) mRNA
192B4	754	934	NM_003457	Hs.62112	2.00E-98	2	zinc finger protein 207 (ZNF207), mRNA /cds=(2
41G9	1664	2096	J02931	Hs.62192	0	1	placental tissue factor (two forms) mRNA, complete cd
482E12	1857	2149	NM_001993	Hs.62192	5.00E-87	1	coagulation factor III (thromboplastin, tss
459C10	1548	1845	AB011114	Hs.62209	1.00E-166	1	mRNA for KIAA0542 protein, partial cds /cds=(39
114D6	2251	2712	NM_002053	Hs.62661	0	1	guanylate binding protein 1, Interferon-induc
590C9	83	760	NM_002032	Hs.62954	0	43	ferritin, heavy polypeptide 1 (FTH1), mRNA /c
458C5	1798	2407	AB033118	Hs.63128	0	1	mRNA for KIAA1292 protein, partial cds /cds=(0
109E5	4661	5114	AB002369	Hs.63302	0	1	KIAA0371 gene, complete cds /cds=(247,3843)
589G9	250	5650	NM_021090	Hs.63302	0	6	myotubularin related protein 3 (MTMR3), mRNA
182E4	1751	2144	NM_002831	Hs.63489	0	1	protein tyrosine phosphatase, non-receptor t
589C8	1787	2222	AK023529	Hs.63525	0	2	cDNA FLJ13467 fis, clone PLACE1003519, highly
458D7	1595	1912	NM_022727	Hs.63609	1.00E-180	1	HpaII tiny fragments locus 9C (HTF9C), mRNA /c
193A2	144	2588	NM_003264	Hs.63668	0	5	toll-like receptor 2 (TLR2), mRNA /cds=(129,24
117C3	1504	2366	AF131762	Hs.64001	0	3	clone 25218 mRNA sequence /cds=UNKNOWN /gb=AF
109F1	568	2157	AL031602	Hs.64239	0	3	DNA sequence from clone RP5-1174N9 on chromosome 1p34
40D5	698	1192	U32324	Hs.64310	0	1	interleukin-11 receptor alpha chain mRNA, complete c
522F4	12	504	NM_006356	Hs.64593	0	1	ATP synthase, H <sup>+</sup> transporting, mitochondrial
462E9	215	891	NM_015423	Hs.64595	0	1	aminoadipate-semialdehyde dehydrogenase-ph
164G10	37	889	NM_006851	Hs.64639	0	2	glioma pathogenesis-related protein (RTVP1),
155G10	1	601	U16307	Hs.64639	0	1	glioma pathogenesis-related protein (GliPR) mRNA, c
110D11	341	712	S60099	Hs.64797	0	1	APPH=amyloid precursor protein homolog [human, placenta,
513E8	3411	3986	AF148537	Hs.65450	0	7	reticulin 4a mRNA, complete cds /cds=(141,3719
460F4	1415	1749	NM_018174	Hs.66048	1.00E-163	1	hypothetical protein FLJ10669 (FLJ10669), mR
478H8	486	1037	NM_001775	Hs.66052	0	1	CD38 antigen (p45) (CD38), mRNA /cds=(69,971)
461A6	2977	3516	AB051540	Hs.66053	0	1	mRNA for KIAA1753 protein, partial cds /cds=(0
191E7	1	494	AL157438	Hs.66151	0	6	mRNA; cDNA DKFZp434A115 (from clone DKFZp434A1
464B6	76	623	NM_002528	Hs.66196	0	1	nth (E.coli endonuclease III)-like 1 (NTHL1),
473C6	149	517	BE673769	Hs.66357	0	1	7d69d02.x1 cDNA, 3' end /clone=IMAGE:3278211
171G11	1001	1385	Z98884	Hs.66708	0	1	DNA sequence from clone RP3-467L1 on chromosome 1p36.
169H3	15	1800	X82200	Hs.68054	0	4	Staf50 /cds=(122,1450) /gb=X82200 /gi=8992
167G9	747	1104	NM_005932	Hs.68583	1.00E-101	1	mitochondrial intermediate peptidase (MIPEP)
170H3	747	1104	U80034	Hs.68583	6.00E-99	1	mitochondrial intermediate peptidase precurs
69F9	321	1348	U78027	Hs.69089	0	5	Bruton's tyrosine kinase (BTK), alpha-D-galac
586D6	16	676	NM_006360	Hs.69469	1.00E-173	2	dendritic cell protein (GA17), mRNA /cds=(51,1
591E3	74	189	NM_002385	Hs.69547	2.00E-59	1	myelin basic protein (MBP), mRNA /cds=(10,570)
597H2	482	2702	NM_007158	Hs.69855	0	8	NRAS-related gene (D1S155E), mRNA /cds=(420,2
515C5	3257	3421	NM_003169	Hs.70186	8.00E-45	1	suppressor of Ty (S.cerevisiae) 5 homolog (SUP
461B9	44	425	H08788	Hs.70258	0	1	yl83g05.r1 cDNA, 5' end /clone=IMAGE:44737 /c
525H4	2834	2978	NM_014933	Hs.70266	4.00E-77	1	yeast Sec31p homolog (KIAA0905), mRNA /cds=(53
521C3	1	1165	NM_016628	Hs.70333	1.00E-176	2	hypothetical protein (LOC51322), mRNA /cds=(
460E5	414	994	AF138903	Hs.70337	0	1	immunoglobulin superfamily protein beta-like
190C7	1406	1788	D50926	Hs.70359	0	1	mRNA for KIAA0136 gene, partial cds /cds=(0,2854) /gb
497F10	653	1096	NM_014210	Hs.70499	0	3	ecotropic viral integration site 2A (EV12A), m
37C11	820	1523	AB002368	Hs.70500	0	4	KIAA0370 gene, partial cds /cds=(0,2406) /gb
464B2	496	721	BG283002	Hs.71243	3.00E-99	1	602406192F1 cDNA, 5' end /clone=IMAGE:4518214
69G4	1292	2708	AL161991	Hs.71252	0	4	cDNA DKFZp761C169 (from clone DKFZp761C1
485E4	176	485	AA131524	Hs.71433	1.00E-151	1	zl31h02.s1 cDNA, 3' end /clone=IMAGE:503571 /
161G2	1338	1877	NM_003129	Hs.71465	0	1	squalene epoxidase (SQLE), mRNA /cds=(214,193

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

188D8	328	597	NM_016630	Hs.71475	1.00E-129	1	hypothetical protein (LOC51324), mRNA /cds=(
483B5	12	384	NM_021128	Hs.71618	0	1	polymerase (RNA) II (DNA directed) polypeptide
161F6	675	1114	U79277	Hs.71848	0	1	clone 23548 mRNA sequence /cds=UNKNOWN
							/gb=U79277 /g
473F8	377	729	BE889075	Hs.71941	1.00E-146	1	601513514F1 cDNA, 5' end /clone=IMAGE:3915003
102A6	1129	1560	AK023183	Hs.72782	0	1	FLJ13121 fis, clone NT2RP3002687 /cds=(39
41E2	56	539	M57506	Hs.72918	0	1	secreted protein (I-309) gene, complete cds /cds=(72,
476E12	1790	2311	S76638	Hs.73090	0	2	p50-NF-kappa B homolog [human, peripheral blood T
							cells, mR
41G7	3116	3469	U64198	Hs.73165	1.00E-173	1	IL-12 receptor beta2 mRNA, complete cds
							/cds=(640,322
51C9	1721	2339	NM_005263	Hs.73172	0	4	growth factor independent 1 (GFI1), mRNA /cds=
67H6	1723	2342	U67369	Hs.73172	0	1	growth factor independence-1 (Gfi-1) mRNA, complete
179E7	211	610	M92444	Hs.73722	0	1	apurinic/aprimidinic endonuclease (HAP1) g
585G3	174	589	NM_001641	Hs.73722	0	8	APEX nuclease (multifunctional DNA repair enz
138A11	1360	1717	M72709	Hs.73737	1.00E-151	1	alternative splicing factor mRNA, complete cds /cds=
49C8	1628	2276	AK001313	Hs.73742	0	4	cDNA FLJ10451 fis, clone NT2RP1000959, highly
41D7	2760	3563	J03565	Hs.73792	0	1	Epstein-Barr virus complement receptor type II(cr2)
121F8	2470	2815	AL136131	Hs.73793	1.00E-123	1	DNA sequence from clone RP1-261G23 on
							chromosome 6p12
482C7	2864	3199	NM_003005	Hs.73800	1.00E-165	3	selectin P (granule membrane protein 140kD, an
153E12	160	778	D90144	Hs.73817	0	22	gene for LD78 alpha precursor, complete cds /c
489E12	161	776	NM_002983	Hs.73817	0	6	small inducible cytokine A3 (homologous to mo
177D7	112	388	BF673951	Hs.73818	1.00E-143	1	602137331F1 cDNA, 5' end /clone=IMAGE:4274084
587E10	5	387	NM_006004	Hs.73818	1.00E-155	6	ubiquinol-cytochrome c reductase hinge prote
142H11	119	436	AL110183	Hs.73851	1.00E-148	1	cDNA DKFZp566A221 (from clone DKFZp566A2
190G11	1	375	NM_001685	Hs.73851	0	6	ATP synthase, H+ transporting, mitochondrial
119D10	675	1700	BC001267	Hs.73957	0	4	RAB5A, member RAS oncogene family, clone MGC:
135H12	1244	1772	NM_003016	Hs.73965	0	2	splicing factor, arginine/serine-rich 2 (SFR
160E6	1811	2196	X75755	Hs.73965	0	5	PR264 gene /cds=(98,763) /gb=X75755 /gi=455418
175F9	791	1446	L29218	Hs.73986	0	2	clk2 mRNA, complete cds /cds=(129,1628) /gb=L2
516D9	782	1144	NM_003992	Hs.73987	0	1	CDC-like kinase 3 (CLK3), transcript variant p
469F3	1778	1956	NM_002286	Hs.74011	4.00E-78	1	lymphocyte-activation gene 3 (LAG3), mRNA /cd
481D6	1323	1805	Z22970	Hs.74076	1.00E-173	1	H.sapiens mRNA for M130 antigen cytoplasmic variant
							2 /cds=(
193H9	813	1569	NM_007360	Hs.74085	1.00E-127	3	DNA segment on chromosome 12 (unique) 2489 expr
39D9	810	994	X54870	Hs.74085	1.00E-100	1	NKG2-D gene /cds=(338,988) /gb=X54870 /gi=3
71F3	3014	3858	NM_004430	Hs.74088	1.00E-114	4	early growth response 3 (EGR3), mRNA /cds=(357,
74B12	3651	4214	S40832	Hs.74088	1.00E-114	7	EGR3=EGR3 protein mRNA,
105E11	2	142	AL050391	Hs.74122	6.00E-72	2	cDNA DKFZp586A181 (from clone DKFZp586A1
174A12	141	1072	NM_001225	Hs.74122	0	9	caspase 4, apoptosis-related cysteine protea
599E9	351	1864	AF279903	Hs.74267	0	6	60S ribosomal protein L15 (EC45) mRNA, complet
74F7	126	1867	AF283772	Hs.74267	0	8	clone TCBAPO781 mRNA sequence /cds=(40,654) /
156G12	554	831	AF034607	Hs.74276	1.00E-156	1	chloride channel ABP mRNA, complete cds /cds=(
118F4	1	148	BG112085	Hs.74313	7.00E-65	2	602283260F1 cDNA, 5' end /clone=IMAGE:4370727
70G10	1	2177	M16660	Hs.74335	0	26	90-kDa heat-shock protein gene, cDNA, complete cds
							/c
64D1	330	2219	NM_007355	Hs.74335	0	26	heat shock 90kD protein 1, beta (HSPCB), mRNA /
121E12	700	1033	NM_006826	Hs.74405	0	1	tyrosine 3-monooxygenase/tryptophan 5-monoo
177D3	480	1645	X57347	Hs.74405	0	2	HS1 protein /cds=(100,837) /gb=X57347 /

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

155A5	680	1176	U86602	Hs.74407	0	1	nucleolar protein p40 mRNA, complete cds /cds=(142,10)
181G10	1802	2302	NM_012381	Hs.74420	0	2	origin recognition complex, subunit 3 (yeast h
66D8	927	1490	X86691	Hs.74441	0	1	218kD Mi-2 protein /cds=(89,5827) /gb=X
189D10	383	1102	NM_001749	Hs.74451	0	7	calpain 4, small subunit (30K) (CAPN4), mRNA /
171A3	721	1092	X04106	Hs.74451	1.00E-174	1	calcium dependent protease (small subunit) /
173F3	1069	1468	NM_004559	Hs.74497	0	1	nuclease sensitive element binding protein 1
176B7	1592	1990	NM_001178	Hs.74515	0	1	aryl hydrocarbon receptor nuclear translocato
481A11	2012	2210	NM_000947	Hs.74519	2.00E-61	1	primase, polypeptide 2A (58kD) (PRIM2A), mRNA
116G8	689	1417	NM_002537	Hs.74563	0	4	ornithine decarboxylase antizyme 2 (OAZ2), mR
526F6	185	1088	NM_003145	Hs.74564	0	3	signal sequence receptor, beta (translocon-as
104D3	713	1127	X79353	Hs.74576	0	1	XAP-4 mRNA for GDP-dissociation inhibitor /cds=(
518G1	2725	2993	NM_001357	Hs.74578	1.00E-134	1	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide
459H1	3093	3268	NM_014767	Hs.74583	3.00E-67	1	KIAA0275 gene product (KIAA0275), mRNA /cds=(
69C5	2304	2781	M97287	Hs.74592	0	3	MAR/SAR DNA binding protein (SATB1) mRNA
587F12	930	2777	NM_002971	Hs.74592	0	6	special AT-rich sequence binding protein 1 (b
124H10	1240	1812	NM_002808	Hs.74619	0	2	proteasome (prosome, macropain) 26S subunit,
57F10	700	2310	NM_000311	Hs.74621	0	60	prion protein (p27-30) (Creutzfeld-Jakob dis
74A10	870	2252	U29185	Hs.74621	0	34	prion protein (PrP) gene, complete cds /cds=(24
176H10	465	923	NM_000108	Hs.74635	0	1	dihydrolipoamide dehydrogenase (E3 component
98F4	870	2566	NM_003217	Hs.74637	0	7	testis enhanced gene transcript (TEGT), mRNA
179H8	1	1210	X75861	Hs.74637	0	3	TEGT gene /cds=(40,753) /gb=X75861 /gi=456258 /
125C4	417	1425	NM_014280	Hs.74711	0	2	splicing factor similar to dnaJ (SPF31), mRNA
74C5	21	177	BE549137	Hs.74861	4.00E-65	1	601076443F1 cDNA, 5' end /clone=IMAGE:3462154
497B12	124	384	NM_006713	Hs.74861	1.00E-123	2	activated RNA polymerase II transcription cof
191E10	497	859	NM_022451	Hs.74899	0	1	hypothetical protein FLJ12820 (FLJ12820), mR
114A3	1032	1446	AY007131	Hs.75061	0	1	clone CDABP0045 mRNA sequence
117G3	279	799	NM_004622	Hs.75066	0	1	translin (TSN), mRNA /cds=(81,767) /gb=Nm_004
483G2	3293	3639	NM_006148	Hs.75080	1.00E-180	1	LIM and SH3 protein 1 (LASP1), /cds=(75,860) /g
181E11	8314	8804	NM_000038	Hs.75081	0	1	adenomatous polyposis coli (APC), mRNA /cds=
597G6	374	2361	NM_003406	Hs.75103	0	6	tyrosine 3-monooxygenase/tryptophan 5-monoo
596F11	684	1088	NM_002097	Hs.75113	0	1	general transcription factor IIIA (GTF3A), mR
69C9	995	1564	AF113702	Hs.75117	0	4	clone FLC1353 PRO3063 mRNA, complete cds /cds=
46E7	128	1519	NM_004515	Hs.75117	1.00E-164	2	interleukin enhancer binding factor 2, 45kD (
481B10	66	515	NM_003201	Hs.75133	0	1	transcription factor 6-like 1 (mitochondrial
469C5	368	969	NM_006708	Hs.75207	0	1	glyoxalase I (GLO1), mRNA /cds=(87,641) /gb=N
71B4	939	2049	NM_002539	Hs.75212	0	24	ornithine decarboxylase 1 (ODC1) mRNA /cds=(33
75E10	173	1991	X16277	Hs.75212	0	51	ornithine decarboxylase ODC (EC 4.1.1.17) /c
166G9	2077	2632	L36870	Hs.75217	0	1	MAP kinase kinase 4 (MKK4) mRNA, complete cds /
167A12	2074	2619	NM_003010	Hs.75217	0	1	mitogen-activated protein kinase kinase 4 (M
105B12	3030	5207	D67029	Hs.75232	0	3	SEC14L mRNA, complete cds
125D1	4782	5209	NM_003003	Hs.75232	0	1	SEC14 (S. cerevisiae)-like 1 (SEC14L1), mRNA
184E4	2075	3174	D42040	Hs.75243	0	5	KIAA9001 gene, complete cds /cds=(1701,4106)
191E5	2071	3174	NM_005104	Hs.75243	0	2	bromodomain-containing 2 (BRD2), mRNA /cds=(1
186C12	4159	4866	NM_001068	Hs.75248	0	6	topoisomerase (DNA) II beta (180kD) (TOP2B), m
177C9	4473	4866	X68060	Hs.75248	0	1	topIIb mRNA for topoisomerase IIb /cds=(0,4865)
39D8	743	1980	D31885	Hs.75249	0	6	KIAA0069 gene, partial cds /cds=(0,680) /gb=
127G2	1363	1769	NM_016166	Hs.75251	0	1	DEAD/H (Asp-Glu-Ala-Asp/His) box binding pro
64E5	4	1214	NM_002922	Hs.75256	0	6	regulator of G-protein signalling 1 (RGS1), mR
69G5	276	914	S59049	Hs.75256	0	6	BL34=B cell activation gene [human, mRNA, 1398 nt]
101F6	315	758	AF054174	Hs.75258	0	1	histone macroH2A1.2 mRNA, complete cds /cds=(
596E10	320	1667	NM_004893	Hs.75258	0	5	H2A histone family, member Y (H2AFY), mRNA /cds
587G10	639	953	NM_001628	Hs.75313	1.00E-147	1	aldo-keto reductase family 1, member B1 (aldo

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

128F7	181	933	X06956	Hs.75318	0	4	HALPHA44 gene for alpha-tubulin, exons 1-3
74A1	321	3290	D21262	Hs.75337	0	10	KIAA0035 gene, partial cds /cds=(0,2125) /gb
50D8	2	667	BF303895	Hs.75344	0	4	601886515F2 cDNA, 5' end /clone=IMAGE:4120514
179F7	379	720	L07633	Hs.75348	1.00E-179	4	(clone 1950.2) interferon-gamma IEF SSP 5111 m
191F3	158	872	NM_006263	Hs.75348	0	18	proteasome (prosome, macropain) activator su
463G4	1849	2394	NM_001873	Hs.75360	0	1	carboxypeptidase E (CPE), mRNA /cds=(290,1720
117D6	224	671	AB023200	Hs.75361	0	1	mRNA for KIAA0983 protein, complete cds /cds=(
73E8	1	2339	D89077	Hs.75367	0	8	for Src-like adapter protein, complete cd
49H5	1	2388	NM_006748	Hs.75367	0	4	Src-like-adapter (SLA), mRNA /cds=(41,871) /
134A3	550	1126	NM_005917	Hs.75375	0	1	malate dehydrogenase 1, NAD (soluble) (MDH1),
462F2	73	361	NM_004172	Hs.75379	1.00E-158	1	solute carrier family 1 (glial high affinity gl
477G6	769	2043	NM_004300	Hs.75393	0	3	acid phosphatase 1, soluble (ACP1), transcript
62A10	1028	2528	X87949	Hs.75410	0	7	BiP protein /cds=(222,2183) /gb=X87949
125H4	510	807	NM_006010	Hs.75412	1.00E-130	2	Arginine-rich protein (ARP), mRNA /cds=(132,8
70H1	29	2349	AK026463	Hs.75415	0	30	FLJ22810 fis, clone KAlA2933, highly sim
60D3	160	1666	D31767	Hs.75416	0	6	KIAA0058 gene, complete cds /cds=(69,575) /g
98D5	103	1233	NM_014764	Hs.75416	0	10	DAZ associated protein 2 (DAZAP2), mRNA /cds=(
55H1	1183	1390	NM_016525	Hs.75425	2.00E-81	1	ubiquitin associated protein (UBAP), mRNA /cd
44B12	51	480	BF131654	Hs.75428	0	3	601820480F1 cDNA, 5' end /clone=IMAGE:4052586
64E11	1	177	NM_000464	Hs.75428	7.00E-94	1	superoxide dismutase 1, soluble (amyotrophic
65D3	387	969	L33842	Hs.75432	0	4	(clone FFE-7) type II inosine monophosphate de
58F9	379	672	NM_000884	Hs.75432	1.00E-149	1	IMP (inosine monophosphate) dehydrogenase 2
73B1	87	291	BE790474	Hs.75458	5.00E-71	2	601476059F1 cDNA, 5' end /clone=IMAGE:3878799
585G5	1	302	NM_000979	Hs.75458	1.00E-170	8	ribosomal protein L18 (RPL18), mRNA /cds=(15,5
173A1	1893	2653	NM_006763	Hs.75462	0	2	BTG family, member 2 (BTG2), mRNA /cds=(71,547)
166A10	601	1147	AB000115	Hs.75470	0	1	mRNA expressed in osteoblast, complete cds /cd
180D10	601	1045	NM_008820	Hs.75470	0	1	hypothetical protein, expressed in osteoblast
122D9	3322	5191	AB023173	Hs.75478	0	2	mRNA for KIAA0956 protein, partial cds /cds=(0
461E5	2484	2804	AL133074	Hs.75497	1.00E-144	1	mRNA; cDNA DKFZp434M1317 (from clone DKFZp434M
512D6	69	799	NM_004591	Hs.75498	0	12	small inducible cytokine subfamily A (Cys-Cys
146B12	54	783	U64197	Hs.75498	0	4	chemokine exodus-1 mRNA, complete cds /cds=(4
596H5	685	1952	NM_001157	Hs.75510	0	5	annexin A11 (ANXA11), mRNA /cds=(178,1695) /g
179D6	215	603	D23662	Hs.75512	1.00E-168	2	ubiquitin-like protein, complete cds
522G12	52	603	NM_006156	Hs.75512	0	2	neural precursor cell expressed, developmenta
46B6	1108	1418	NM_000270	Hs.75514	1.00E-166	1	nucleoside phosphorylase (NP), mRNA /cds=(109
73H11	83	1418	X00737	Hs.75514	1.00E-104	3	purine nucleoside phosphorylase (PNP; EC 2.
154F7	1279	2056	L05425	Hs.75528	0	3	nucleolar GTPase mRNA, complete cds /cds=(79,2
164C10	1268	1910	NM_013285	Hs.75528	0	2	nucleolar GTPase (HUMAUAUTIG), mRNA /cds=(79,
106C8	76	322	Z25749	Hs.75538	1.00E-130	3	gene for ribosomal protein S7 /cds=(81,665) /gb=
98E5	474	1188	NM_003405	Hs.75544	0	1	tyrosine 3-monooxygenase/tryptophan 5-monoo
459G10	2160	2717	NM_000418	Hs.75545	0	1	interleukin 4 receptor (IL4R), mRNA /cds=(175,
44B2	71	692	U03851	Hs.75546	0	1	capping protein alpha mRNA, partial cds /cds=(16,870)
483F2	1207	1392	NM_004357	Hs.75564	1.00E-80	1	CD151 antigen (CD151), mRNA /cds=(84,845) /gb
596D6	1968	2392	NM_021975	Hs.75569	0	1	v-rel avian reticuloendotheliosis viral onco
466G10	679	896	NM_014763	Hs.75574	1.00E-120	2	mitochondrial ribosomal protein L19 (MRPL19),
524B3	6194	6477	NM_001759	Hs.75586	1.00E-147	1	cyclin D2 (CCND2), mRNA /cds=(269,1138) /gb=N
481B4	3423	3804	NM_000878	Hs.75596	1.00E-160	2	interleukin 2 receptor, beta (IL2RB), mRNA /cd
162B5	753	1694	M29064	Hs.75598	0	6	hnRNP B1 protein mRNA /cds=(149,1210) /gb=M29064 /gi
176F5	730	922	NM_002137	Hs.75598	1.00E-108	1	heterogeneous nuclear ribonucleoprotein A2/
106C2	1654	2589	D10522	Hs.75607	0	8	for BOK-L protein, complete cds /cds=(369,
98C5	1538	2589	NM_002356	Hs.75607	0	20	myristoylated alanine-rich protein kinase C

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

192E5	1007	1416	NM_006819	Hs.75612	0	1	stress-induced-phosphoprotein 1 (Hsp70/Hsp9
40E12	836	1765	M98399	Hs.75613	0	2	antigen CD36 (clone 21) mRNA, complete cds /cds=(254,1
107C6	1491	1595	AF113676	Hs.75621	3.00E-51	1	clone FLB2803 PRO0684 mRNA, complete cds /cds=
117E9	149	1033	NM_001779	Hs.75626	0	2	CD58 antigen, (lymphocyte function-associate
482H10	740	1367	NM_000591	Hs.75627	0	1	CD14 antigen (CD14), mRNA /cds=(119,1246) /gb
482D4	1342	1659	NM_006163	Hs.75643	3.00E-82	1	nuclear factor (erythroid-derived 2), 45kD (N
73F8	2864	3657	L49169	Hs.75678	0	20	GOS3 mRNA, complete cds /cds=(593,1609) /gb=L49169 /
58G3	3222	3657	NM_006732	Hs.75678	0	6	FBJ murine osteosarcoma viral oncogene homolo
53A7	30	836	J04130	Hs.75703	0	138	activation (Act-2) mRNA, complete cds /cds=(108,386)
500E11	41	688	NM_002984	Hs.75703	0	128	small inducible cytokine A4 (homologous to mo
170E9	415	2376	M16985	Hs.75709	0	6	cation-dependent mannose 6-phosphate-specific rece
591E8	1759	2401	NM_002355	Hs.75709	0	3	mannose-6-phosphate receptor (cation depende
191A11	20	1900	NM_002575	Hs.75716	0	13	serine (or cysteine) proteinase inhibitor, cl
184F5	18	1900	Y00630	Hs.75716	0	8	Arg-Serpin (plasminogen activator-inhibito
693G8	238	747	NM_005022	Hs.75721	1.00E-110	2	profilin 1 (PFN1), mRNA /cds=(127,549) /gb=NM
178G9	504	2101	NM_002951	Hs.75722	0	2	ribophorin II (RPN2), mRNA /cds=(288,2183) /g
138F12	2341	2488	Y00282	Hs.75722	4.00E-60	1	ribophorin II /cds=(288,2183) /gb=Y00282 /g
37F7	1328	1863	AK023290	Hs.75748	0	3	FLJ13228 fis, clone OVARC1000085, highly
119C7	3736	4103	NM_003137	Hs.75761	1.00E-172	1	SFRS protein kinase 1 (SRPK1), mRNA /cds=(108,2
52E8	574	1106	M36820	Hs.75765	0	2	cytokine (GRO-beta) mRNA, complete cds /cds=(74,397)
74C8	2055	3026	M10901	Hs.75772	0	4	glucocorticoid receptor alpha mRNA, complete cds /cd
196C5	2600	4591	NM_000176	Hs.75772	0	5	nuclear receptor subfamily 3, group C, member
68E7	2194	2597	D87953	Hs.75789	0	1	RTP, complete cds /cds=(122,1306) /gb=D87953
116E3	289	621	NM_016470	Hs.75798	0	1	hypothetical protein (HSPC207), mRNA /cds=(0
107C10	650	1165	AK025732	Hs.75811	0	1	FLJ22079 fis, clone HEP13180, highly sim
123C12	459	969	NM_004315	Hs.75811	0	1	N-acylsphingosine amidohydrolase (acid cera
99E11	1007	2346	NM_014761	Hs.75824	0	2	KIAA0174 gene product (KIAA0174), mRNA /cds=(
128C11	377	906	NM_006817	Hs.75841	0	2	endoplasmic reticulum luminal protein (ERP28
175F5	455	843	X94910	Hs.75841	1.00E-173	1	ERp28 protein /cds=(11,796) /gb=X9491
182F12	4263	4842	D86550	Hs.75842	0	1	mRNA for serine/threonine protein kinase, complete c
175E3	3255	3787	AL110132	Hs.75875	0	1	mRNA; cDNA DKFZp564H192 (from clone DKFZp564H1
195G3	1435	2132	NM_003349	Hs.75875	0	2	ubiquitin-conjugating enzyme E2 variant 1 (U
184B12	17	282	BF698920	Hs.75879	1.00E-138	8	602126495F1 cDNA, 5' end /clone=IMAGE:4283350
67G6	1218	1605	AK000639	Hs.75884	1.00E-173	1	FLJ20632 fis, clone KAT03756, highly simi
516A11	721	1109	NM_015416	Hs.75884	0	2	DKFZP586A011 protein (DKFZP586A011), mRNA /c
44B1	1066	4914	NM_004371	Hs.75887	0	4	coatomer protein complex, subunit alpha (COPA
594D3	3971	4158	NM_003791	Hs.75890	1.00E-73	1	site-1 protease (subtilisin-like, sterol-reg
459H8	5291	5688	D87446	Hs.75912	1.00E-160	1	mRNA for KIAA0257 gene, partial cds /cds=(0,5418) /gb
113F6	2281	2807	NM_006842	Hs.75916	0	1	splicing factor 3b, subunit 2, 145kD (SF3B2), m
104F9	2334	2804	U41371	Hs.75916	0	1	spliceosome associated protein (SAP 145) mRNA, compl
100F12	656	825	AK024890	Hs.75932	6.00E-83	1	FLJ21237 fis, clone COL01114 /cds=UNKNOWN
39E1	40	526	BF217887	Hs.75968	1.00E-124	2	601882510F1 cDNA, 5' end /clone=IMAGE:4094907
111G8	41	547	NM_021109	Hs.75968	1.00E-166	19	thymosin, beta 4, X chromosome (TMSB4X), mRNA
478A7	1335	1653	NM_006813	Hs.75969	1.00E-119	1	proline-rich protein with nuclear targeting s

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

70E9	652	1065	U03105	Hs.75969	0	1	B4-2 protein mRNA, complete cds /cds=(113,1096) /gb=U
596B9	508	1461	NM_003133	Hs.75975	0	2	signal recognition particle 9kD (SRP9), mRNA
513F12	1359	2169	NM_005151	Hs.75981	0	3	ubiquitin specific protease 14 (tRNA-guanine
74B3	1361	2166	U30888	Hs.75981	0	2	tRNA-guanine transglycosylase mRNA, complete cds /c
67B6	81	1457	X17025	Hs.76038	0	4	homolog of yeast IPP isomerase /cds=(50,736) /gb=X170
586F2	1471	2197	NM_004396	Hs.76053	0	13	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide
70B3	762	2211	X52104	Hs.76053	0	12	p68 protein /cds=(175,2019) /gb=X52104 /gi=3
73B2	32	494	BF214146	Hs.76064	0	1	601847762F1 cDNA, 5' end /clone=IMAGE:4078622
523E6	10	441	NM_000990	Hs.76064	0	2	ribosomal protein L27a (RPL27A), mRNA /cds=(1
38F7	6	372	Z23090	Hs.76067	0	2	28 kDa heat shock protein /cds=(491,1108)
59B6	916	1274	AF071596	Hs.76095	1.00E-174	1	apoptosis inhibitor (IE-X-1L) gene, complete c
493B3	540	1206	NM_003897	Hs.76095	0	3	immediate early response 3 (IER3), mRNA /cds=(
483D7	1399	2083	NM_005626	Hs.76122	0	1	splicing factor, arginine/serine-rich 4 (SFR
591C12	13412	13873	NM_003922	Hs.76127	0	3	hect (homologous to the E6-AP (UBE3A) carboxyl
65H7	12209	12580	U50078	Hs.76127	0	1	guanine nucleotide exchange factor p532 mRNA, complet
160B6	79	535	X77584	Hs.76136	1.00E-140	1	ATL-derived factor/thioredoxin /cds=(80
596A9	1	124	NM_001009	Hs.76194	3.00E-62	1	ribosomal protein S5 (RPS5), mRNA /cds=(37,651
51H5	2834	3174	AK025353	Hs.76230	1.00E-180	1	cDNA: FLJ21700 fis, clone COL09849, highly sim
115C8	1589	2005	NM_001748	Hs.76288	0	1	calpain 2, (mII) large subunit (CAPN2), mRNA
588C5	4	336	NM_004492	Hs.76362	0	2	general transcription factor IIA, 2 (12kD subu
111D9	732	1077	NM_004930	Hs.76368	1.00E-161	2	capping protein (actin filament) muscle Z-lin
192A11	1589	1995	NM_002462	Hs.76391	0	3	myxovirus (Influenza) resistance 1, homolog o
39F5	8481	8730	Y00285	Hs.76473	1.00E-111	1	insuline-like growth factor II receptor /cds
98C4	487	3719	NM_002298	Hs.76506	0	38	lymphocyte cytosolic protein 1 (L-plastin) (L
124H12	611	1747	NM_004862	Hs.76507	0	5	LPS-induced TNF-alpha factor (PIG7), mRNA /cd
37A6	920	1524	U77396	Hs.76507	1.00E-162	2	LPS-Induced TNF-Alpha Factor (LITAF) mRNA, co
71E9	759	3362	D00099	Hs.76549	0	4	mRNA for Na,K-ATPase alpha-subunit, complete
73F5	951	1277	AK001361	Hs.76556	1.00E-168	1	FLJ10499 fis, clone NT2RP2000346, weakly
48H6	1097	1603	NM_014330	Hs.76556	0	2	growth arrest and DNA-damage-inducible 34 (G
160C8	74	181	BE730376	Hs.76572	2.00E-40	1	601563816F1 5' end /clone=IMAGE:3833690
589D11	86	455	NM_001697	Hs.76572	0	2	ATP synthase, H+ transporting, mitochondrial
38B1	227	886	NM_014059	Hs.76640	0	9	RGC32 protein (RGC32), mRNA /cds=(146,499) /g
174B12	3024	4628	D80005	Hs.76666	1.00E-136	4	mRNA for KIAA0183 gene, partial cds /cds=(0,3190) /gb
37A11	1788	3255	AF070673	Hs.76691	0	5	stannin mRNA, complete cds /cds=(175,441) /gb
58H11	1706	2088	AL136807	Hs.76698	0	2	mRNA; cDNA DKFZp434L1621 (from clone DKFZp434L
477F9	6930	7298	AB002299	Hs.76730	0	2	mRNA for KIAA0301 gene, partial cds /cds=(0,6144) /gb
40G7	293	819	NM_000118	Hs.76753	0	1	endoglin (Osier-Rendu-Weber syndrome 1) (EN
75C11	10	1113	J00194	Hs.76807	0	5	human hla-dr antigen alpha-chain mma & ivs fragments /cds=
99F4	10	969	NM_019111	Hs.76807	0	6	major histocompatibility complex, class II,
61G12	1870	2511	AL133098	Hs.76853	0	1	cDNA DKFZp434N1728 (from clone DKFZp434N
599C2	41	346	NM_002790	Hs.76913	1.00E-124	1	proteasome (prosome, macropain) subunit, alp
155C2	508	870	X61970	Hs.76913	0	1	for macropain subunit zeta /cds=(21,746) /g
70C5	3398	3754	AF002020	Hs.76918	0	1	Niemann-Pick C disease protein (NPC1) mRNA, co
57A11	2173	2764	NM_000271	Hs.76918	0	1	Niemann-Pick disease, type C1 (NPC1), mRNA /cd
158C9	314	1233	NM_001679	Hs.76941	0	3	ATPase, Na+/K+ transporting, beta 3 polypeptid
520E1	4175	4502	NM_014757	Hs.76986	1.00E-158	1	mastermind (Drosophila), homolog of (MAML1),
587D8	22	869	NM_001006	Hs.77039	0	5	ribosomal protein S3A (RPS3A), mRNA /cds=(36,8
481F2	440	1488	NM_001731	Hs.77054	0	3	B-cell translocation gene 1, anti-proliferati
53G11	340	1490	X61123	Hs.77054	0	3	BTG1 mRNA /cds=(308,823) /gb=X61123 /gi=29508 /ug=Hs
521A6	147	1325	D55716	Hs.77152	0	2	mRNA for P1cdc47, complete cds /cds=(116,2275) /gb=D

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

37H9	2109	2530	X07109	Hs.77202	0	1	protein kinase C (PKC) type /cds=(136,2157) /
167H5	3915	4508	NM_006437	Hs.77225	0	1	ADP-ribosyltransferase (NAD+; poly (ADP-ribo
139G5	2183	2389	U61145	Hs.77256	1.00E-111	1	enhancer of zeste homolog 2 (EZH2) mRNA, complete cds
109H2	2502	2893	D38549	Hs.77257	0	1	KIAA0068 gene, partial cds /cds=(0,3816) /gb
184B7	619	1111	L25080	Hs.77273	0	1	GTP-binding protein (rhoA) mRNA, complete cds
587H1	614	1371	NM_001664	Hs.77273	0	9	ras homolog gene family, member A (ARHA), mRNA
99G10	1387	2219	NM_002658	Hs.77274	0	1	plasminogen activator, urokinase (PLAU), mRN.
143C12	2403	2905	AL049332	Hs.77311	0	2	cDNA DKFZp564L176 (from clone DKFZp564L1
519B11	5248	5555	NM_000430	Hs.77318	1.00E-160	1	platelet-activating factor acetylhydrolase,
52F10	3249	3459	AF095901	Hs.77324	1.00E-114	2	eRF1 gene, complete cds /cds=(136,1449) /gb=A
494G1	3255	3453	NM_004730	Hs.77324	1.00E-109	2	eukaryotic translation termination factor 1
517E4	305	973	NM_014754	Hs.77329	0	2	phosphatidylserine synthase 1 (PTDSS1), mRNA
72F9	1934	4605	AF187320	Hs.77356	0	10	transferrin receptor (TFRC) gene, complete cd
46D6	241	4902	NM_003234	Hs.77356	0	2	transferrin receptor (p90, CD71) (TFRC), mRNA
113A12	1028	1290	NM_024033	Hs.77365	1.00E-145	1	hypothetical protein MGC5242 (MGC5242), mRNA
173A7	1142	1649	AK026164	Hs.77385	0	2	cDNA: FLJ22511 fis, clone HRC11837, highly sim
189E7	466	798	NM_002004	Hs.77393	0	1	farnesyl diphosphate synthase (farnesyl pyro
479B1	306	482	NM_000566	Hs.77424	8.00E-55	1	Fc fragment of IgG, high affinity Ia, receptor
41E12	351	898	X14356	Hs.77424	0	1	high affinity Fc receptor (FcR1) /cds=(36,116
122D3	562	855	NM_002664	Hs.77436	1.00E-145	1	pleckstrin (PLEK), mRNA /cds=(60,1112) /gb=N
59C11	1	2745	X07743	Hs.77436	0	5	pleckstrin (P47) /cds=(60,1112) /gb=X07743
590B1	5185	5274	NM_001379	Hs.77462	1.00E-44	1	DNA (cytosine-5-)-methyltransferase 1 (DNMT1
522D1	572	956	NM_001929	Hs.77494	0	1	deoxyguanosine kinase (DGUOK), mRNA /cds=(11,
109E12	723	2474	D87684	Hs.77495	1.00E-163	5	for KIAA0242 protein, partial cds /cds=(0,
148E2	61	271	BE737246	Hs.77496	1.00E-81	1	601305556F1 5' end /clone=IMAGE:3640165
586D4	1887	2362	NM_003363	Hs.77500	0	1	ubiquitin specific protease 4 (proto-oncogene
57E8	29	2808	BC001854	Hs.77502	0	30	methionine adenosyltransferase II, alpha, c
70H9	87	1283	X68836	Hs.77502	0	14	S-adenosylmethionine synthetase /cds=(
69B2	778	3033	M20867	Hs.77508	0	2	glutamate dehydrogenase (GDH) mRNA, complete cds /cd
513F9	2694	2929	NM_005271	Hs.77508	1.00E-105	1	glutamate dehydrogenase 1 (GLUD1), mRNA /cds=
75A3	190	701	X62744	Hs.77522	0	1	RING6 mRNA for HLA class II alpha product /cds=(45,830
105E10	72	597	BE673364	Hs.77542	0	3	7d34a03.x1 cDNA, 3' end /clone=IMAGE:3249100
124B2	85	683	BF508702	Hs.77542	0	8	UI-H-BI4-aop-g-05-0-UI.s1 cDNA, 3' end /clon
524C9	829	1233	AK021563	Hs.77558	0	3	cDNA FLJ11501 fis, clone HEMBA1002100 /cds=UNK
523B12	7580	8153	NM_004652	Hs.77578	0	2	ubiquitin specific protease 9, X chromosome (D
166F3	169	340	AL021546	Hs.77608	7.00E-63	1	DNA sequence from BAC 15E1 on chromosome 12. Contains
195A11	164	451	NM_003769	Hs.77608	1.00E-162	1	splicing factor, arginine/serine-rich 9 (SF
595E1	618	1461	AF056322	Hs.77617	0	7	SP100-HMG nuclear autoantigen (SP100) mRNA, c
115A6	2954	3541	AL137938	Hs.77646	0	2	mRNA; cDNA DKFZp761M0223 (from clone DKFZp761M
592H6	261	951	NM_014752	Hs.77665	0	3	KIAA0102 gene product (KIAA0102), mRNA /cds=(
461F3	4657	4980	NM_014749	Hs.77724	1.00E-174	1	KIAA0586 gene product (KIAA0586), mRNA /cds=(
98C8	27	1961	NM_002543	Hs.77729	0	4	oxidised low density lipoprotein (lectin-like
598A12	101	1396	NM_006759	Hs.77837	0	4	UDP-glucose pyrophosphorylase 2 (UGP2), mRNA
594H8	1	872	NM_006802	Hs.77897	1.00E-144	2	splicing factor 3a, subunit 3, 60kD (SF3A3), mR
171E4	1140	1394	X81789	Hs.77897	1.00E-110	1	for splicing factor SF3a60 /cds=(565,2070)
500F1	2185	2496	AK025736	Hs.77910	1.00E-160	1	cDNA: FLJ22083 fis, clone HEP14459, highly sim
525B10	1696	2060	NM_000122	Hs.77929	0	1	excision repair cross-complementing rodent r
53E1	877	1539	AK026595	Hs.77961	0	7	FLJ22942 fis, clone KAT08170, highly sim
521C6	631	1089	NM_005514	Hs.77961	1.00E-115	4	major histocompatibility complex, class I, B
588C3	300	853	NM_004792	Hs.77965	0	1	Cik-associating RS-cyclophilin (CYP), mRNA



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

523C6	277	582	NM_001912	Hs.78056	1.00E-143	1	cathepsin L (CTSL), mRNA /cds=(288,1289) /gb=
140D10	292	1549	X12451	Hs.78056	0	3	pro-cathepsin L (major excreted protein MEP)
463E5	129	552	NM_005969	Hs.78103	0	1	nucleosome assembly protein 1-like 4 (NAP1L4)
166H3	540	895	U77456	Hs.78103	0	1	nucleosome assembly protein 2 mRNA, complete cds /cd
40B10	2433	2543	M28526	Hs.78146	5.00E-29	1	platelet endothelial cell adhesion molecule (PECAM-1
114E5	1671	2029	NM_000442	Hs.78146	1.00E-162	1	platelet/endothelial cell adhesion molecule
513D11	28	1399	NM_000700	Hs.78225	0	5	annexin A1 (ANXA1), mRNA /cds=(74,1114) /gb=N
331B3	219	1370	X05908	Hs.78225	0	3	lipocortin /cds=(74,1114) /gb=X05908 /gi=34
56A12	1383	2379	X94232	Hs.78335	0	4	novel T-cell activation protein /cds=(14
465H1	388	904	NM_002812	Hs.78466	0	2	proteasome (prosome, macropain) 26S subunit,
108H7	2067	2486	L42572	Hs.78504	0	1	p87/89 gene, complete cds /cds=(92,2368) /gb=
187E9	729	1494	NM_006839	Hs.78504	0	2	inner membrane protein, mitochondrial (mitof
102F2	672	2947	L14561	Hs.78546	0	2	plasma membrane calcium ATPase isoform 1 (ATP
591H12	42	1949	NM_004034	Hs.78637	0	3	annexin A7 (ANXA7), transcript variant 2, mRN
595H3	2775	3030	NM_003470	Hs.78683	3.00E-96	1	ubiquitin specific protease 7 (herpes virus-as
62F5	2775	3838	Z72499	Hs.78683	0	2	herpesvirus associated ubiquitin-speci
46G4	2632	3238	NM_003580	Hs.78687	0	1	neutral sphingomyelinase (N-SMase) activatio
513A11	342	1258	NM_002635	Hs.78713	0	10	solute carrier family 25 (mitochondrial carri
472A4	3018	3286	NM_024298	Hs.78768	1.00E-132	1	malignant cell expression-enhanced gene/tumo
177A3	377	1186	AL049589	Hs.78771	0	3	DNA sequence from clone 570L12 on chromosome Xq13.1-2
71E6	303	1767	NM_000291	Hs.78771	0	12	phosphoglycerate kinase 1 (PGK1), mRNA /cds=(
181D8	2104	3677	NM_018834	Hs.78825	0	4	matrin 3 (MATR3), mRNA /cds=(254,2800) /gb=NM
126G6	2498	2959	AL162049	Hs.78829	0	1	mRNA; cDNA DKFZp762E1712 (from clone DKFZp762E
41C3	1743	2340	M31932	Hs.78864	0	2	IgG low affinity Fc fragment receptor (FcRIIa) mRNA, c
166D11	1696	2156	M81601	Hs.78869	0	1	transcription elongation factor (SII) mRNA, complete
517B3	565	1392	D42039	Hs.78871	0	3	mRNA for KIAA0081 gene, partial cds /cds=(0,702) /gb=
180G11	59	517	NM_020548	Hs.78888	0	1	diazepam binding inhibitor (GABA receptor mod
99B7	2356	3329	U07802	Hs.78909	0	45	Tis11d gene, complete cds /cds=(291,1739) /gb=U07802
54C4	557	1101	U13045	Hs.78915	0	1	nuclear respiratory factor-2 subunit beta 1 mRNA, com
44A5	634	1128	U29607	Hs.78935	0	2	methionine aminopeptidase mRNA, complete cds /cds=(2
63A2	964	1050	X92106	Hs.78943	7.00E-31	1	bleomycin hydrolase /cds=(78,1445) /gb
163G9	228	877	L13463	Hs.78944	0	3	helix-loop-helix basic phosphoprotein (G0S8) mRNA,
119H6	472	877	NM_002923	Hs.78944	0	1	regulator of G-protein signalling 2, 24kD (RG
166E2	5629	5764	U51903	Hs.78993	2.00E-69	1	RasGAP-related protein (IQGAP2) mRNA, complete cds
40F9	66	603	M15796	Hs.78996	0	1	cyclin protein gene, complete cds /cds=(118,903) /gb
593E5	156	854	NM_012245	Hs.79008	0	5	SKI-INTERACTING PROTEIN (SNW1), mRNA /cds=(2
485B7	276	599	AF063591	Hs.79015	1.00E-136	1	brain my033 protein mRNA, complete cds /cds=(5
61B4	125	732	X05323	Hs.79015	0	2	MRC OX-2 gene signal sequence /cds=(0,824) /gb=X05323
71C8	330	1958	NM_005261	Hs.79022	0	24	GTP-binding protein overexpressed in skeletal
75G8	330	1957	U10550	Hs.79022	0	63	Gem GTPase (gem) mRNA, complete cds /cds=(213,1103) /
584G1	4424	5163	AF226044	Hs.79025	0	2	HSNFRK (HSNFRK) mRNA, complete cds /cds=(841,2
117C5	358	933	NM_012413	Hs.79033	0	1	glutaminy-peptide cyclotransferase (glutam
72B2	910	2015	AJ250915	Hs.79037	0	9	p10 gene for chaperonin 10 (Hsp10 protein) and
71G11	880	1981	NM_002158	Hs.79037	0	5	heat shock 60kD protein 1 (chaperonin) (HSPD1)

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

193H12	1859	2474	NM_003243	Hs.79059	0	5	transforming growth factor, beta receptor III
460B4	846	1325	NM_001930	Hs.79064	0	1	deoxyhypusine synthase (DHPS), transcript va
75C4	1166	2087	K02276	Hs.79070	0	85	(Daudi) translocated t(8;14) c-myc oncogene mRNA, co
71G10	1274	2121	NM_002467	Hs.79070	0	12	v-myc avian myelocytomatosis viral oncogene h
183D8	385	741	NM_002710	Hs.79081	0	1	protein phosphatase 1, catalytic subunit, gam
170A12	741	1203	X74008	Hs.79081	0	1	protein phosphatase 1 gamma /cds=(154,11
121D9	2920	3385	NM_006378	Hs.79089	0	1	sema domain, immunoglobulin domain (Ig), tran
40C12	2933	4108	U60800	Hs.79089	0	4	semaphorin (CD100) mRNA, complete cds /cds=(87,2675)
104E1	1708	1932	L35263	Hs.79107	1.00E-101	1	CSAids binding protein (CSBP1) mRNA, complete cds /cd
70B2	913	2497	AK000221	Hs.79110	0	9	FLJ20214 fis, clone COLF2014, highly simi
123B12	1929	2644	D42043	Hs.79123	0	3	mRNA for KIAA0084 gene, partial cds /cds=(0,1946) /gb
193G7	802	1425	NM_004379	Hs.79194	0	2	cAMP responsive element binding protein 1 (CR
75D5	158	2139	NM_004233	Hs.79197	0	16	CD83 antigen (activated B lymphocytes, immuno
74H2	98	1357	NM_001154	Hs.79274	0	2	annexin A5 (ANXA5), mRNA /cds=(192,1154) /gb=
519G7	5358	5496	D86985	Hs.79276	2.00E-69	1	mRNA for KIAA0232 protein, partial cds /cds=(0,
462C2	1477	2031	NM_003006	Hs.79283	0	1	selectin P ligand (SELPLG), mRNA /cds=(59,1267
65C6	23	1609	M15353	Hs.79306	0	6	cap-binding protein mRNA, complete cds /cds=(1
64H8	326	1610	NM_001968	Hs.79306	0	3	eukaryotic translation initiation factor 4E
52C3	1333	1904	X64318	Hs.79334	0	1	E4BP4 gene /cds=(213,1601) /gb=X64318 /gi=30955
39F7	1179	1740	AF109733	Hs.79335	0	1	SWI/SNF-related, matrix-associated, actin-d
194A7	1512	1803	NM_003076	Hs.79335	1.00E-118	1	SWI/SNF related, matrix associated, actin dep
463E12	4326	4831	NM_015148	Hs.79337	0	1	KIAA0135 protein (KIAA0135), mRNA /cds=(1803,
526B5	1420	1867	NM_002958	Hs.79350	0	2	RYK receptor-like tyrosine kinase (RYK), mRNA
460F3	1755	2242	NM_006285	Hs.79358	0	2	testis-specific kinase 1 (TESK1), mRNA /cds=(
98B11	2076	4834	X76061	Hs.79362	0	11	H.sapiens p130 mRNA for 130K protein /cds=(69,3488) /gb=X76
45F3	2286	2666	NM_001423	Hs.79368	0	1	epithelial membrane protein 1 (EMP1), mRNA /cd
50C10	2016	2666	Y07909	Hs.79368	0	2	Progression Associated Protein /cds=(21
118E3	549	1078	NM_012198	Hs.79381	0	1	granulysin (GCL), mRNA /cds=(119,772) /gb=N
181F4	657	1271	NM_002805	Hs.79387	0	2	proteasome (prosome, macropain) 26S subunit,
105H3	1114	1538	D83018	Hs.79389	0	1	for nel-related protein 2, complete cds /
173B2	429	3009	NM_006159	Hs.79389	0	5	nel (chicken)-like 2 (NELL2), mRNA /cds=(96,25
177B3	662	991	AC004382	Hs.79402	0	1	Chromosome 16 BAC clone CIT987SK-A-152E5 /cds
590H3	663	1002	NM_002694	Hs.79402	0	1	polymerase (RNA) II (DNA directed) polypeptide
523B7	223	582	NM_002946	Hs.79411	0	1	replication protein A2 (32kD) (RPA2), mRNA /c
182B10	472	1024	U02019	Hs.79625	1.00E-121	2	AU-rich element RNA-binding protein AUF1 mRNA, comple
479F3	100	301	NM_001783	Hs.79630	2.00E-86	1	CD79A antigen (immunoglobulin-associated al
40H9	582	1107	U05259	Hs.79630	0	1	MB-1 gene, complete cds /cds=(36,716) /gb=U05259 /gi
116A2	1003	1368	NM_006224	Hs.79709	1.00E-178	1	phosphatidylinositol transfer protein (PITPN
74G8	252	1297	D21853	Hs.79768	0	5	KIAA0111 gene, complete cds /cds=(214,1449)
525G2	830	1297	NM_014740	Hs.79768	0	2	KIAA0111 gene product (KIAA0111), mRNA /cds=(
125G3	2757	3339	AF072928	Hs.79877	0	1	myotubularin related protein 6 mRNA, partial c
184A2	532	1102	AF135162	Hs.79933	0	1	cyclin I (CYC1) mRNA, complete cds /cds=(199,13
514C6	329	1256	NM_006835	Hs.79933	0	6	cyclin I (CCNI), mRNA /cds=(0,1133) /gb=N
116G5	824	1058	NM_006875	Hs.80205	1.00E-121	1	pim-2 oncogene (PIM2), mRNA /cds=(185,1189) /
106C11	1700	1995	U77735	Hs.80205	1.00E-125	1	pim-2 protooncogene homolog pim-2h mRNA, complete cd
110E3	276	653	AL136139	Hs.80261	0	1	DNA sequence from clone RP4-76112 on chromosome 6 Con
478D1	1067	2761	NM_006403	Hs.80261	2.00E-70	2	enhancer of filamentation 1 (cas-like docking;

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

178C8	880	1226	AL050192	Hs.80285	0	1	mRNA; cDNA DKFZp586C1723 (from clone DKFZp586C
494F11	477	5535	NM_014739	Hs.80338	0	8	KIAA0164 gene product (KIAA0164), mRNA /cds=(
190A1	1165	1540	NM_004156	Hs.80350	1.00E-166	2	protein phosphatase 2 (formerly 2A), catalytic
461A1	4639	4913	NM_004653	Hs.80358	1.00E-140	1	SMC (mouse) homolog, Y chromosome (SMCY), mRNA
158A8	2656	3229	L24498	Hs.80409	0	1	gadd45 gene, complete cds /cds=(2327,2824) /gb=L2449
41E6	2385	2992	U84487	Hs.80420	0	2	CX3C chemokine precursor, mRNA, alternatively splice
40H4	2830	3605	NM_000129	Hs.80424	0	1	coagulation factor XIII, A1 polypeptide (F13A
464D3	214	835	NM_004899	Hs.80426	0	2	brain and reproductive organ-expressed (TNFR
75H8	1180	4930	U12767	Hs.80561	0	60	mitogen induced nuclear orphan receptor (MINOR) mRNA
593E10	1	510	NM_004552	Hs.80595	1.00E-158	5	NADH dehydrogenase (ubiquinone) Fe-S protein
113C5	1182	1583	NM_003336	Hs.80612	0	1	ubiquitin-conjugating enzyme E2A (RAD6 homol
515B7	268	538	NM_001020	Hs.80617	2.00E-91	3	ribosomal protein S16 (RPS16), mRNA /cds=(37,4
477F12	460	606	NM_018996	Hs.80618	1.00E-47	1	hypothetical protein (FLJ20015), mRNA /cds=(
41A8	1331	1788	L78440	Hs.80642	0	1	STAT4 mRNA, complete cds /cds=(81,2327) /gb=L
594C1	1594	2586	NM_003151	Hs.80642	0	4	signal transducer and activator of transcripti
112C8	1802	1932	NM_002198	Hs.80645	2.00E-35	1	Interferon regulatory factor 1 (IRF1), mRNA /
522H8	1130	1533	NM_003355	Hs.80658	1.00E-135	4	uncoupling protein 2 (mitochondrial, proton c
123E4	259	757	NM_002129	Hs.80684	0	4	high-mobility group (nonhistone chromosomal)
109H1	263	754	X62534	Hs.80684	0	1	HMG-2 mRNA /cds=(214,843) /gb=X62534 /gi=32332
149G9	1020	1607	J05032	Hs.80758	0	2	aspartyl-tRNA synthetase alpha-2 subunit mRNA, compl
461F12	1702	2246	AL031600	Hs.80768	0	1	DNA sequence from clone 390E6 on chromosome 16. Contai
102B2	1486	2008	M16038	Hs.80887	0	1	lyn mRNA encoding a tyrosine kinase /cds=(297,1835) /
125B11	1260	2013	NM_002350	Hs.80887	0	5	v-yes-1 Yamaguchi sarcoma viral related oncog
37C9	2901	5260	D79990	Hs.80905	0	8	KIAA0168 gene, complete cds /cds=(196,1176)
196D6	2949	5261	NM_014737	Hs.80905	0	9	Ras association (RalGDS/AF-6) domain family 2
584H1	4072	4296	NM_002693	Hs.80961	3.00E-91	1	polymerase (DNA directed), gamma (POLG), nucl
584F9	31	568	AF174605	Hs.81001	0	5	F-box protein Fbx25 (FBX25) mRNA, partial cds
102D11	1037	1632	J03459	Hs.81118	0	1	leukotriene A-4 hydrolase mRNA, complete cds /cds=(68
193F8	1037	1643	NM_000895	Hs.81118	0	2	leukotriene A4 hydrolase (LTA4H), mRNA /cds=(
118H7	354	1148	U65590	Hs.81134	0	5	IL-1 receptor antagonist IL-1Ra (IL-1RN) gene
41H1	2549	2936	X60992	Hs.81226	0	1	CD6 mRNA for T cell glycoprotein CD6 /cds=(120,152
171B9	2070	2479	AF248648	Hs.81248	0	1	RNA-binding protein BRUNOL2 (BRUNOL2) mRNA, c
590A6	291	512	NM_002961	Hs.81256	3.00E-66	1	S100 calcium-binding protein A4 (calcium prot
73H2	389	1481	M69043	Hs.81328	0	14	MAD-3 mRNA encoding Ikb-like activity, complet
513G1	637	1481	NM_020529	Hs.81328	0	13	nuclear factor of kappa light polypeptide gene
488F2	1065	1417	NM_004499	Hs.81361	1.00E-180	4	heterogeneous nuclear ribonucleoprotein A/B
151C8	1260	1423	U76713	Hs.81361	1.00E-61	1	apobec-1 binding protein 1 mRNA, complete cds /cds=(15
593B9	41	954	NM_001688	Hs.81634	0	3	ATP synthase, H+ transporting, mitochondrial
104H12	352	912	X60221	Hs.81634	0	1	H+-ATP synthase subunit b /cds=(32,802)
141G8	1132	1642	AK001883	Hs.81648	0	1	FLJ11021 fis, clone PLACE1003704, weakly
41A1	4214	4395	X06182	Hs.81665	5.00E-67	1	c-kit proto-oncogene mRNA /cds=(21,2951) /gb=X06182
102F5	3037	3646	D38551	Hs.81848	0	1	KIAA0078 gene, complete cds /cds=(184,2079)
111E11	1375	1752	NM_006265	Hs.81848	0	1	RAD21 (S. pombe) homolog (RAD21), mRNA /cds=(1
592F8	38	720	NM_014736	Hs.81892	0	1	KIAA0101 gene product (KIAA0101), mRNA /cds=(

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

194F1	6886	7115	AF241785	Hs.81897	1.00E-117	1	NPD012 (NPD012) mRNA, complete cds /cds=(552,2
525C6	1	615	NM_005563	Hs.81915	0	4	leukemia-associated phosphoprotein p18 (sta
101D12	3249	3508	D38555	Hs.81964	1.00E-143	1	KIAA0079 gene, complete cds /cds=(114,3491)
176D11	2996	3168	NM_004922	Hs.81964	9.00E-94	2	SEC24 (S. cerevisiae) related gene family, mem
129B7	5068	5759	D50683	Hs.82028	0	4	for TGF-beta1R alpha, complete cds /cds=
195H6	946	1208	NM_006023	Hs.82043	6.00E-74	1	D123 gene product (D123), mRNA /cds=(280,1290)
481D9	2709	3085	NM_002184	Hs.82065	1.00E-134	1	interleukin 6 signal transducer (gp130, oncos
129A5	1338	1802	M14083	Hs.82085	0	1	beta-migrating plasminogen activator inhibitor I mR
57G9	500	1561	AF220656	Hs.82101	1.00E-145	3	apoptosis-associated nuclear protein PHLDA1
40C11	3748	4497	M27492	Hs.82112	0	1	interleukin 1 receptor mRNA, complete cds
481B6	3164	3609	NM_000877	Hs.82112	0	1	/cds=(82,17
40H6	161	557	AB049113	Hs.82113	0	1	interleukin 1 receptor, type I (IL1R1), mRNA /
592B7	184	568	NM_001948	Hs.82113	1.00E-111	2	DUT mRNA for dUTP pyrophosphatase, complete cd
114F1	465	720	U70451	Hs.82116	1.00E-135	1	dUTP pyrophosphatase (DUT), mRNA /cds=(29,523
71H5	194	3415	NM_006186	Hs.82120	0	36	myeloid differentiation primary response protein My
75C1	1264	3422	X75918	Hs.82120	0	84	nuclear receptor subfamily 4, group A, member
40D1	1621	2080	M90391	Hs.82127	0	1	NOT /cds=(317,2113) /gb=X75918 /gi=4158
71C4	678	5065	NM_002460	Hs.82132	0	88	putative IL-16 protein precursor, mRNA, comple
75G12	3219	5316	U52682	Hs.82132	0	27	interferon regulatory factor 4 (IRF4), mRNA /
193G6	1118	2682	NM_006874	Hs.82143	1.00E-178	3	lymphocyte specific interferon regulatory factor/in
147F6	1484	1951	AK025643	Hs.82148	0	1	E74-like factor 2 (ets domain transcription fa
155E4	853	1264	M64992	Hs.82159	0	1	FLJ21990 fls, clone HEP06386 /cds=(22,49
595F1	30	614	NM_002786	Hs.82159	0	3	prosome protein P30-33K (pros-30) mRNA, complete
58A4	473	1715	NM_005655	Hs.82173	0	3	cd
67E6	784	2109	S81439	Hs.82173	0	7	proteasome (prosome, macropain) subunit, alp
593H2	132	722	NM_000985	Hs.82202	0	2	TGFB inducible early growth response (TIEG), m
40H5	283	1442	M37033	Hs.82212	0	12	EGR alpha=early growth response gene alpha
592C4	1	1442	NM_000560	Hs.82212	0	11	[human, prostate
460D4	1519	1845	NM_002510	Hs.82226	1.00E-160	1	ribosomal protein L17 (RPL17), mRNA /cds=(138,
61A8	507	736	AF045229	Hs.82280	1.00E-116	1	CD53 glycoprotein mRNA, complete cds
45F7	418	651	NM_002925	Hs.82280	1.00E-119	1	/cds=(93,752) /
49C2	416	1323	NM_006417	Hs.82316	0	7	CD53 antigen (CD53), mRNA /cds=(93,752) /gb=N
41C11	847	1716	X63717	Hs.82359	0	2	glycoprotein (transmembrane) nmb (GNMB), mR
71H4	15	1627	NM_001781	Hs.82401	0	21	regulator of G protein signaling 10 mRNA, compl
75B10	9	1627	Z22576	Hs.82401	0	33	regulator of G-protein signalling 10 (RGS10),
117B7	1441	1515	NM_022059	Hs.82407	7.00E-28	1	Interferon-induced, hepatitis C-associated
110D6	1219	1721	AF006088	Hs.82425	0	1	AP0-1 cell surface antigen /cds=(220,122
598F10	39	1497	NM_005717	Hs.82425	0	5	CD69 antigen (p60, early T-cell activation ant
99A9	621	1214	D26018	Hs.82502	0	1	CD69 gene /cds=(81,680) /gb=Z22576 /gi=397938 /
183F6	222	2235	NM_001637	Hs.82542	0	2	CXC chemokine ligand 16 (CXCL16), mRNA /cds=(4
459G4	5196	5801	NM_003682	Hs.82548	0	1	Arp2/3 protein complex subunit p16-Arc (ARC16)
75A6	301	2231	D85429	Hs.82646	0	44	actin related protein 2/3 complex, subunit 5 (
64A5	300	2008	NM_006145	Hs.82646	0	17	mRNA for KIAA0039 gene, partial cds /cds=(0,1475)
50E5	628	2399	AK025459	Hs.82689	0	2	/gb
115C6	23	589	NM_005087	Hs.82712	0	1	acyloxyacyl hydrolase (neutrophil) (AOAH), m
105H10	1017	1429	M61199	Hs.82767	0	1	MAP-kinase activating death domain (MADD), mR
461A11	204	748	NM_006296	Hs.82771	0	1	heat shock protein 40, complete cds /c
							heat shock 40kD protein 1 (HSPF1), mRNA /cds=(4
							FLJ21806 fls, clone HEP00829, highly sim
							fragile X mental retardation, autosomal homol
							cleavage signal 1 protein mRNA, complete cds
							/cds=(97,
							vaccinia related kinase 2 (VRK2), mRNA /cds=(1

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

39B4	1049	1203	M25393	Hs.82829	8.00E-83	1	protein tyrosine phosphatase (PTPase) mRNA, complete
590F5	123	436	NM_002828	Hs.82829	1.00E-178	1	protein tyrosine phosphatase, non-receptor t
517F10	1038	2618	AK025583	Hs.82845	0	9	cDNA: FLJ21930 fis, clone HEP04301, highly sim
40B7	972	1933	M25280	Hs.82848	0	6	lymph node homing receptor mRNA, complete cds /cds=(11
515B1	1	2322	NM_000655	Hs.82848	0	12	selectin L (lymphocyte adhesion molecule 1) (
587A10	190	685	NM_001344	Hs.82890	0	1	defender against cell death 1 (DAD1), mRNA /cd
113G9	1	2812	AF208850	Hs.82911	0	7	BM-008 mRNA, complete cds /cds=(341,844) /gb=
127H6	1828	2501	NM_003591	Hs.82919	0	2	cullin 2 (CUL2), mRNA /cds=(146,2383) /gb=NM_0
477E3	931	1777	NM_006416	Hs.82921	0	2	solute carrier family 35 (CMP-sialic acid tran
184D2	1355	1773	AL049795	Hs.83004	1.00E-184	1	DNA sequence from clone RP4-622L5 on chromosome 1p34.
41F10	507	774	D49950	Hs.83077	1.00E-150	1	for interferon-gamma inducing factor(IGI
482E7	499	774	NM_001562	Hs.83077	5.00E-97	1	interleukin 18 (Interferon-gamma-inducing f
515C6	111	1162	L38935	Hs.83086	1.00E-107	2	GT212 mRNA /cds=UNKNOWN /gb=L38935 /gi=100884
479D3	1775	2028	NM_001760	Hs.83173	1.00E-122	1	cyclin D3 (CCND3), mRNA /cds=(165,1043) /gb=N
583H12	945	1655	NM_012151	Hs.83363	0	9	coagulation factor VIII-associated (intronic
47B3	2140	3625	M58603	Hs.83428	0	13	nuclear factor kappa-B DNA binding subunit (NF-kappa-
58G1	2538	3625	NM_003998	Hs.83428	0	4	nuclear factor of kappa light polypeptide gene
477C8	1628	2131	Z49995	Hs.83465	0	1	H.sapiens mRNA (non-coding; clone h2A) /cds=UNKNOWN /gb=Z4
587D10	1576	1900	AF064839	Hs.83530	0	2	map 3p21; 3.15 cR from WI-9324 region, complete
516B9	1662	3296	X59405	Hs.83532	0	4	H.sapiens, gene for Membrane cofactor protein /cds=UNKNOWN
459A5	120	298	NM_017459	Hs.83551	7.00E-42	1	microfibrillar-associated protein 2 (MFAP2),
591A12	321	1116	NM_005731	Hs.83583	0	17	actin related protein 2/3 complex, subunit 2 (
102C1	554	1127	AK025198	Hs.83623	0	1	FLJ21545 fis, clone COL06195 /cds=UNKNOWN
458C8	1022	1831	NM_001619	Hs.83636	0	1	adrenergic, beta, receptor kinase 1 (ADRBK1),
107G1	303	1008	L20688	Hs.83656	0	4	GDP-dissociation inhibitor protein (Ly-GDI) mRNA, c
597F8	293	1180	NM_001175	Hs.83656	0	55	Rho GDP dissociation inhibitor (GDI) beta (AR
591G5	1	216	NM_003142	Hs.83715	1.00E-108	3	Sjogren syndrome antigen B (autoantigen La) (
184H9	240	392	X69804	Hs.83715	4.00E-77	2	for La/SS-B protein /cds=UNKNOWN /gb=X69804
193C10	1	1605	BC000957	Hs.83724	1.00E-154	4	Similar to hypothetical protein MNCb-2146, c
40A2	1101	1294	U90904	Hs.83724	1.00E-72	1	clone 23773 mRNA sequence /cds=UNKNOWN /gb=U90904 /g
57H2	191	422	NM_001827	Hs.83758	1.00E-126	1	CDC28 protein kinase 2 (CKS2), mRNA /cds=(95,33
60E10	191	422	X54942	Hs.83758	1.00E-129	1	ckshs2 mRNA for Cks1 protein homologue /cds=(95,3
164F5	1896	2293	NM_016325	Hs.83761	0	1	zinc finger protein 274 (ZNF274), mRNA /cds=(4
463E6	555	1128	NM_000791	Hs.83765	0	1	dihydrofolate reductase (DHFR), mRNA /cds=(47
194F8	1806	2223	NM_002199	Hs.83795	1.00E-161	1	Interferon regulatory factor 2 (IRF2), mRNA /
520D11	180	1229	NM_000365	Hs.83848	0	5	triosephosphate isomerase 1 (TPI1), mRNA /cds
168B6	530	891	U47924	Hs.83848	0	1	chromosome 12p13 sequence /cds=(373,1122) /gb=U4792
331E11	2591	3485	NM_000480	Hs.83918	0	8	adenosine monophosphate deaminase (isoform E
458A11	125	409	NM_000396	Hs.83942	1.00E-108	1	cathepsin K (pseudosclerosis) (CTSK), mRNA /
185H2	2501	2690	NM_000195	Hs.83951	3.00E-85	1	Hermansky-Pudlak syndrome (HPS), mRNA /cds=(2
99D2	977	1191	NM_019006	Hs.83954	1.00E-97	1	protein associated with PRK1 (AWP1), mRNA /cds
167D5	2275	2755	NM_000211	Hs.83968	0	4	integrin, beta 2 (antigen CD18 (p95), lymphocyt
524B2	262	575	BF028896	Hs.83992	1.00E-155	1	601765270F1 cDNA, 5' end /clone=IMAGE:3997576
523B2	688	1065	NM_015937	Hs.84038	0	1	CGI-06 protein (LOC51604), mRNA /cds=(6,1730)
102F1	951	1416	M63180	Hs.84131	0	1	threonyl-tRNA synthetase mRNA, complete cds /cds=(13
589D5	863	1700	NM_006400	Hs.84153	0	3	dynactin 2 (p50) (DCTN2), mRNA /cds=(136,1356)

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

108F6	448	704	U70439	Hs.84264	1.00E-117	1	silver-stainable protein SSP29 mRNA, complete cds /
146D6	1022	1253	K01144	Hs.84298	6.00E-95	2	major histocompatibility class II antigen gamma chain
188B10	823	1302	NM_004355	Hs.84298	0	1	CD74 antigen (invariant polypeptide of major
175D2	1060	1479	M63488	Hs.84318	1.00E-158	1	replication protein A 70kDa subunit mRNA complete cds
115F4	2305	2393	NM_002945	Hs.84318	2.00E-43	1	replication protein A1 (70kD) (RPA1), mRNA /cd
595H4	5400	5649	NM_004239	Hs.85092	1.00E-131	1	thyroid hormone receptor interactor 11 (TRIP1
106F1	493	1371	NM_017491	Hs.85100	0	3	WD repeat domain 1 (WDR1), transcript variant 1
40C10	438	880	X57025	Hs.85112	0	1	IGF-I mRNA for insulin-like growth factor I /cds=(166,
44C5	2247	2430	AF017257	Hs.85146	5.00E-89	1	chromosome 21 derived BAC containing erythrobl
45D4	1962	3324	X79067	Hs.85155	0	6	H.sapiens ERF-1 mRNA 3' end /cds=UNKNOWN /gb=X79067 /gi=483
591B9	2378	2603	NM_002880	Hs.85181	1.00E-109	1	v-raf-1 murine leukemia viral oncogene homolo
39E2	67	2493	X76488	Hs.85226	0	3	lysosomal acid lipase /cds=(145,1344) /
62H12	1249	1975	M12824	Hs.85258	0	3	T-cell differentiation antigen Leu-2/T8 mRNA, partia
40C8	4505	4856	X53587	Hs.85266	0	1	integrin beta 4 /cds=UNKNOWN /gb=X53587 /gi=
40E11	1983	2633	S53911	Hs.85289	0	1	CD34=glycoprotein expressed in lymphohematopoietic proge
135A2	121	695	BC001646	Hs.85301	0	2	clone MGC:2392, mRNA, complete cds /cds=(964,
459H4	33	244	AK027067	Hs.85567	2.00E-90	1	cDNA: FLJ23414 fis, clone HEP20704 /cds=(37,10
479A4	5556	5974	AB040974	Hs.85752	1.00E-171	1	mRNA for KIAA1541 protein, partial cds /cds=(9
146C3	1610	2062	AL049796	Hs.85769	0	1	DNA sequence from clone RP4-561L24 on chromosome 1p22
463H11	871	1153	NM_006546	Hs.86088	5.00E-83	1	IGF-II mRNA-binding protein 1 (IMP-1), mRNA /
480A12	2	165	NM_004876	Hs.86371	7.00E-84	1	zinc finger protein 254 (ZNF254), mRNA /cds=(1
192F7	2854	3462	AF198614	Hs.86386	0	3	Mcl-1 (MCL-1) and Mcl-1 delta S/TM (MCL-1) gene
459G3	12	577	AL049340	Hs.86405	0	1	mRNA; cDNA DKFZp564P056 (from clone DKFZp564P0
460E4	2361	2787	NM_000161	Hs.86724	0	2	GTP cyclohydrolase 1 (dopa-responsive dystoni
62F9	834	1282	M60724	Hs.86858	0	1	p70 ribosomal S6 kinase alpha-I mRNA, complete cds /cd
187E7	84	766	NM_001695	Hs.86905	0	1	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar
159D4	315	559	J03798	Hs.86948	1.00E-113	1	autoantigen small nuclear ribonucleoprotein Sm-D MR
459F9	1557	1619	NM_006938	Hs.86948	2.00E-25	1	small nuclear ribonucleoprotein D1 polypeptid
480G11	87	603	BG168139	Hs.87113	0	1	602341526F1 cDNA, 5' end /clone=IMAGE:4449343
41D6	2208	2320	M35999	Hs.87149	4.00E-39	1	platelet glycoprotein IIIa (GPIIIa) mRNA, complete c
462H11	387	648	NM_003806	Hs.87247	1.00E-133	1	harakiri, BCL2-interacting protein (contains
99D7	614	5517	NM_003246	Hs.87409	0	62	thrombospondin 1 (THBS1), mRNA /cds=(111,3623
39B8	2130	5517	X14787	Hs.87409	0	33	thrombospondin /cds=(111,3623) /gb=X14787
525A2	329	560	NM_007047	Hs.87497	1.00E-129	2	butyrophilin, subfamily 3, member A2 (BTN3A2)
583F2	3303	3622	D63876	Hs.87726	1.00E-155	1	mRNA for KIAA0154 gene, partial cds /cds=(0,2080) /gb
184D7	2211	2556	M34181	Hs.87773	1.00E-165	1	testis-specific cAMP-dependent protein kinase catal
460A4	499	1074	AL117637	Hs.87794	0	1	mRNA; cDNA DKFZp434I225 (from clone DKFZp434I2
459G2	258	452	AW967701	Hs.87912	8.00E-88	1	EST379776 cDNA /gb=AW967701 /gi=8157540 /ug=
74H7	1660	2397	AK026960	Hs.88044	0	9	FLJ23307 fis, clone HEP11549, highly sim
463D12	351	568	AI184553	Hs.88130	1.00E-118	1	qd60a05.x1 cDNA, 3' end /clone=IMAGE:1733840
595B1	309	986	NM_003454	Hs.88219	0	1	zinc finger protein 200 (ZNF200), mRNA /cds=(2
458D3	1018	1285	NM_000487	Hs.88251	6.00E-74	1	arylsulfatase A (ARSA), mRNA /cds=(375,1898)
462F4	4272	4846	AJ271878	Hs.88414	0	1	mRNA for putative transcription factor (BACH2
460B12	1267	2022	NM_006800	Hs.88764	0	3	male-specific lethal-3 (Drosophila)-like 1

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

461A4	2039	2421	AL161659	Hs.88820	0	1	DNA sequence from clone RP11-526K24 on chromosome 20
460F9	3413	3654	NM_000397	Hs.88974	1.00E-133	1	cytochrome b-245, beta polypeptide (chronic g
459G9	790	1160	NM_006228	Hs.89040	1.00E-145	1	prepronociceptin (PNOC), mRNA /cds=(211,741)
70H12	1	661	AV716500	Hs.89104	0	274	AV716500 cDNA, 5' end /clone=DCBAKA08 /clone_
469H5	1620	2142	AB040961	Hs.89135	0	1	mRNA for KIAA1528 protein, partial cds /cds=(4
175G6	2069	2501	D83243	Hs.89385	0	1	NPAT mRNA, complete cds /cds=(66,4349) /gb=D83243 /g
592B10	3703	3936	NM_002519	Hs.89385	1.00E-130	1	nuclear protein, ataxia-telangiectasia locu
120B7	337	630	NM_005176	Hs.89399	1.00E-114	1	ATP synthase, H+ transporting, mitochondrial
39D2	370	1892	AF147204	Hs.89414	0	68	chemokine receptor CXCR4-Lo (CXCR4) mRNA, alt
99H4	7	1625	NM_003467	Hs.89414	0	137	chemokine (C-X-C motif), receptor 4 (fusin) (C
106D2	2	266	U03644	Hs.89421	1.00E-143	1	receptin mRNA, complete cds /cds=(32,1387) /gb=U03644
41F5	1203	1522	M16336	Hs.89476	1.00E-170	1	T-cell surface antigen CD2 (T11) mRNA, complete cds, c
463A3	876	1025	NM_000698	Hs.89499	1.00E-79	1	arachidonate 5-lipoxygenase (ALOX5), mRNA /c
47D12	1198	4887	AB028969	Hs.89519	0	2	for KIAA1046 protein, complete cds /cds=(
498G2	4420	5265	NM_014928	Hs.89519	0	2	KIAA1046 protein (KIAA1046), mRNA /cds=(577,1
589G3	598	689	NM_002796	Hs.89545	4.00E-45	2	proteasome (prosome, macropain) subunit, bet
331B1	699	788	S71381	Hs.89545	1.00E-41	1	prosome beta-subunit=multicatalytic proteinase complex
110A2	1403	1739	AK026432	Hs.89555	1.00E-177	1	FLJ22779 fis, clone KAIA1741 /cds=(234,1
118E4	780	1672	NM_002110	Hs.89555	0	5	hemopoietic cell kinase (HCK), mRNA /cds=(168,
41B8	570	1166	M89957	Hs.89575	0	1	immunoglobulin superfamily member B cell receptor co
44A11	2567	2808	L20814	Hs.89582	1.00E-115	1	glutamate receptor 2 (HBGR2) mRNA, complete cds /cds=(
191G11	309	596	NM_006284	Hs.89657	1.00E-162	11	TATA box binding protein (TBP)-associated fac
72G5	1172	1676	AX023367	Hs.89679	0	38	Sequence 38 from Patent WO0006605
71B12	40	559	NM_000586	Hs.89679	0	13	interleukin 2 (IL2), mRNA /cds=(47,517) /gb=N
179G12	158	737	M36821	Hs.89690	0	1	cytokine (GRO-gamma) mRNA, complete cds
193B5	680	1146	NM_002994	Hs.89714	0	17	small inducible cytokine subfamily B (Cys-X-Cy
182G10	681	1146	X78586	Hs.89714	0	7	ENA-78 mRNA /cds=(106,450) /gb=X78586 /gi=47124
191C6	617	1597	NM_021950	Hs.89751	0	2	membrane-spanning 4-domains, subfamily A, m
40H3	1347	1597	X07203	Hs.89751	3.00E-71	1	CD20 receptor (S7) /cds=(90,983) /gb=X07203
458H2	3524	4331	NM_002024	Hs.89764	0	2	fragile X mental retardation 1 (FMR1), mRNA /c
40F6	1665	2210	D38081	Hs.89887	0	1	thromboxane A2 receptor, complete cds /cds=(9
473E1	578	956	AL515381	Hs.89986	1.00E-172	1	AL515381 cDNA /clone=CL0BB017ZH06-(3-prime)
126A12	770	982	AL558028	Hs.90035	1.00E-102	1	AL558028 cDNA /clone=CS0DJ002YF02-(5-prime)
183E12	2203	2814	NM_001316	Hs.90073	0	1	chromosome segregation 1 (yeast homolog)-like
145H12	1602	1811	AK026766	Hs.90077	1.00E-113	2	FLJ23113 fis, clone LNG07875, highly sim
62C2	1472	2610	AB023420	Hs.90093	0	2	for heat shock protein apg-2, complete cds
46H6	3172	3411	D26488	Hs.90315	6.00E-86	1	mRNA for KIAA0007 gene, partial cds /cds=(0,2062) /gb
116E2	1637	2016	AK025800	Hs.90421	1.00E-118	1	cDNA: FLJ22147 fis, clone HEP22163, highly sim
525H3	6	1231	NM_004261	Hs.90606	0	2	.15 kDa selenoprotein (SEP15), mRNA /cds=(4,492
184D8	287	387	BE888304	Hs.90654	1.00E-46	2	601514033F1 cDNA, 5' end /clone=IMAGE:3915177
99D4	1948	4309	D50918	Hs.90998	0	5	mRNA for KIAA0128 gene, partial cds /cds=(0,1276) /gb
72B9	571	1312	AK026954	Hs.91065	0	1	FLJ23301 fis, clone HEP11120 /cds=(2,188
588H8	189	478	NM_000987	Hs.91379	2.00E-83	1	ribosomal protein L26 (RPL26), mRNA /cds=(6,44
160A12	1	132	X69392	Hs.91379	4.00E-69	5	ribosomal protein L26 /cds=(6,443) /gb=
331H4	1632	2166	AK027210	Hs.91448	0	1	FLJ23557 fis, clone LNG08686, highly sim
473E6	915	1390	NM_004556	Hs.91640	0	2	nuclear factor of kappa light polypeptide gene
69E4	673	1328	AB007956	Hs.92381	1.00E-122	2	mRNA, chromosome 1 specific transcript KIAA04
182F10	117	781	AF070523	Hs.92384	0	1	JWA protein mRNA, complete cds /cds=(115,681)
585F10	77	1890	NM_006407	Hs.92384	0	13	vitamin A responsive; cytoskeleton related (J

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

469G3	2061	2293	AK025683	Hs.92414	1.00E-110	1	cDNA: FLJ22030 fis, clone HEP08669 /cds=UNKNOWN
472H4	247	671	AW978555	Hs.92448	0	1	EST390664 cDNA /gb=AW978555 /gi=8169822 /ug=
193F11	2051	4721	NM_003103	Hs.92909	0	3	SON DNA binding protein (SON), mRNA /cds=(414,4
37E7	1287	1805	AK002059	Hs.92918	0	1	FLJ11197 fis, clone PLACE1007690 /cds=(37
111D7	244	596	NM_016623	Hs.92918	1.00E-166	1	hypothetical protein (BM-009), mRNA /cds=(385
41B10	1216	1530	U24577	Hs.93304	1.00E-173	1	LDL-phospholipase A2 mRNA, complete cds /cds=(216,15
48B4	76	723	NM_001417	Hs.93379	0	5	eukaryotic translation initiation factor 4B
39F8	76	876	X55733	Hs.93379	0	1	initiation factor 4B cDNA /cds=(0,1835) /gb=X557
471B10	680	886	NM_007020	Hs.93502	1.00E-125	1	U1-snRNP binding protein homolog (70kD) (U1SN
467A3	1189	1284	X91348	Hs.93522	3.00E-36	1	H.sapiens predicted non coding cDNA (DGCR5) /cds=UNKNOWN /
461B5	652	874	NM_003367	Hs.93649	1.00E-104	1	upstream transcription factor 2, c-fos intera
62B8	1386	1739	J05016	Hs.93659	1.00E-170	1	(clone pA3) protein disulfide isomerase related prote
461E7	1931	2086	NM_004911	Hs.93659	1.00E-65	1	protein disulfide isomerase related protein (
458G11	2423	3161	AB040959	Hs.93836	0	1	mRNA for KIAA1526 protein, partial cds /cds=(0
104E3	516	981	AK000967	Hs.93872	0	1	FLJ10105 fis, clone HEMBA1002542 /cds=UN
41B6	87	846	X04430	Hs.93913	0	2	IFN-beta 2a mRNA for interferon-beta-2 /cds=(86,724)
179H7	1610	1682	AF009746	Hs.94395	9.00E-34	1	peroxisomal membrane protein 69 (PMP69) mRNA,
470G3	74	493	NM_007221	Hs.94446	0	1	polyamine-modulated factor 1 (PMF1), mRNA /c
472A5	2325	2429	AK022267	Hs.94576	2.00E-48	1	cDNA FLJ12205 fis, clone MAMMA1000931 /cds=UNK
459C9	5356	6120	NM_006421	Hs.94631	0	3	brefeldin A-inhibited guanine nucleotide-exc
465F8	3580	4049	NM_015125	Hs.94970	0	1	KIAA0306 protein (KIAA0306), mRNA /cds=(0,436
57B9	4145	4379	NM_005109	Hs.95220	1.00E-126	1	oxidative-stress responsive 1 (OSR1), mRNA /c
160D6	30	480	X01451	Hs.95327	0	2	gene for 20K T3 glycoprotein (T3-delta-chain) of T-c
512G1	1	415	BF107010	Hs.95388	1.00E-175	2	601824367F1 cDNA, 5' end /clone=IMAGE:4043920
593E11	24	273	BG291649	Hs.95835	1.00E-79	10	602385778F1 cDNA, 5' end /clone=IMAGE:4514827
41H2	1011	1306	M28170	Hs.96023	1.00E-114	1	cell surface protein CD19 (CD19) gene, complete cds /c
149G8	213	435	BF222826	Hs.96487	1.00E-119	2	7q23f06.x1 /clone=IMAGE /gb=BF222826 /g
101G7	2268	3173	AL133227	Hs.96560	0	2	DNA sequence from clone RP11-394O2 on chromosome 20 C
103E6	2840	3451	BC000143	Hs.96560	0	1	Similar to hypothetical protein FLJ11656, cl
107G5	226	2349	BF673956	Hs.96566	7.00E-24	1	602137338F1 cDNA, 5' end /clone=IMAGE:4274048
461A12	3602	4135	AB014555	Hs.96731	0	2	mRNA for KIAA0655 protein, partial cds /cds=(0
595A8	82	1571	NM_000734	Hs.97087	1.00E-147	10	CD3Z antigen, zeta polypeptide (TIT3 complex)
479H8	883	1378	NM_014373	Hs.97101	0	3	putative G protein-coupled receptor (GPCR150)
466D12	2001	5732	NM_012072	Hs.97199	0	2	complement component C1q receptor (C1QR), mRN
194B3	1835	2898	NM_002990	Hs.97203	0	2	small inducible cytokine subfamily A (Cys-Cys)
109E9	2880	3536	AF083322	Hs.97437	0	1	centriole associated protein CEP110 mRNA, com
459H5	9	230	BF438062	Hs.97896	1.00E-116	1	7q66e08.x1 cDNA /clone=IMAGE /gb=BF438062 /g
473A4	871	1327	NM_007015	Hs.97932	0	1	chondromodulin I precursor (CHM-I), mRNA /cds
466E9	1408	1808	AL442083	Hs.98026	1.00E-172	2	mRNA; cDNA DKFZp547D144 (from clone DKFZp547D1
460E3	1290	1687	AF038564	Hs.98074	0	1	atrophin-1 interacting protein 4 (AIP4) mRNA,
462E6	103	642	NM_016440	Hs.98289	0	1	VRK3 for vaccinia related kinase 3 (LOC51231),
460B8	114	546	AA418743	Hs.98306	1.00E-178	1	zv98f06.s1 cDNA, 3' end /clone=IMAGE:767843 /
124A8	1	157	NM_019044	Hs.98324	2.00E-89	1	hypothetical protein (FLJ10996), mRNA /cds=(
71B10	79	520	AI761058	Hs.98531	1.00E-112	34	wf69b03.x1 cDNA, 3' end /clone=IMAGE:2398541
49F1	36	435	AA913840	Hs.98903	0	1	ol39d11.s1 cDNA, 3' end /clone=IMAGE:1525845



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

462F6	61	201	AC006276	Hs.99093	2.00E-74	1	chromosome 19, cosmid R28379 /cds=(0,633) /gb
473A2	47	475	BE326857	Hs.99237	0	1	hr65h06.x1 cDNA, 3' end /clone=IMAGE:3133403
599D8	1468	1748	NM_005825	Hs.99491	1.00E-132	1	RAS guanyl releasing protein 2 (calcium and DA
459F8	300	541	AW444899	Hs.99665	1.00E-123	1	UI-H-B13-ajz-d-07-0-UI.s1 cDNA, 3' end /clon
163H9	8	141	AL049319	Hs.99821	2.00E-58	1	cDNA DKFZp564C046 (from clone DKFZp564C0
165H8	1176	1930	NM_015400	Hs.99843	0	2	DKFZP586N0721 protein (DKFZP586N0721), mRNA
188C9	543	998	NM_001438	Hs.99853	0	2	fibrillarin (FBL), mRNA /cds=(59,1024) /gb=N
37H2	759	2017	AC018755	Hs.99855	0	4	chromosome 19, BAC BC330783 (CIT-HSPC_470E3),
127H3	758	2183	NM_001462	Hs.99855	0	5	formyl peptide receptor-like 1 (FPRL1), mRNA
62F2	1	642	BF315159	Hs.99858	0	6	601899519F1 cDNA, 5' end /clone=IMAGE:4128749
599A7	26	838	NM_000972	Hs.99858	0	11	ribosomal protein L7a (RPL7A), mRNA /cds=(31,8
167B3	1994	2101	AB032251	Hs.99872	2.00E-37	1	BPTF mRNA for bromodomain PHD finger transcript
41G8	461	751	L08096	Hs.99899	1.00E-161	1	CD27 ligand mRNA, complete cds /cds=(150,731) /gb=L08
479C10	327	738	NM_001252	Hs.99899	0	1	tumor necrosis factor (ligand) superfamily, m
36D8	1180	2315	AL162047	Hs.99908	0	7	cDNA DKFZp762E1112 (from clone DKFZp762E
593E2	62	435	NM_000983	Hs.99914	1.00E-145	1	ribosomal protein L22 (RPL22), mRNA /cds=(51,4
478C8	48	311	NM_000023	Hs.99931	1.00E-112	1	sarcoglycan, alpha (50kD dystrophin-associat
61A1	827	1053	S82140	Hs.99969	1.00E-126	1	TLS=translocated in liposarcoma [human, mRNA, 1824 nt] /cd
40C7	971	1724	X69819	Hs.99995	0	1	ICAM-3 mRNA /cds=(8,1651) /gb=X69819 /gi=32627
116F8	109	376	NM_002964	Hs.100000	1.00E-123	5	S100 calcium-binding protein A8 (calgranulin
121F4	30	540	NM_001629	Hs.100194	1.00E-118	7	arachidonate 5-lipoxygenase-activating pro
46G10	5175	5624	NM_003605	Hs.100293	0	2	O-linked N-acetylglucosamine (GlcNAc) transf
49E4	1279	2585	NM_006773	Hs.100555	0	4	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide
61E1	1279	1767	X98743	Hs.100555	0	2	RNA helicase (Myc-regulated dead box pro
460A10	824	1321	NM_018099	Hs.100895	0	1	hypothetical protein FLJ10462 (FLJ10462), mR
458F1	1	303	R18757	Hs.100896	1.00E-157	1	yg17e04.r1 cDNA, 5' end /clone=IMAGE:32522 /c
64B8	2062	2711	AB007859	Hs.100955	0	1	mRNA for KIAA0399 protein, partial cds /cds=(0,
515H6	131	201	NM_001207	Hs.101025	6.00E-33	1	basic transcription factor 3 (BTF3), mRNA /cd
472H12	10	358	AW988686	Hs.101340	0	1	EST380762 cDNA /gb=AW988686 /gi=8158527 /ug=
99G6	2427	4860	AB002384	Hs.101359	0	9	mRNA for KIAA0386 gene, complete cds /cds=(177,3383)
62E12	193	573	AI936516	Hs.101370	1.00E-100	6	wd28h07.x1 cDNA, 3' end /clone=IMAGE:2329501
493B9	3	638	AL583391	Hs.101370	0	8	AL583391 cDNA /clone=CS0DL012YA12-(3-prime)
117D4	2812	2986	NM_006291	Hs.101382	7.00E-79	1	tumor necrosis factor, alpha-induced protein
462A9	382	620	BC000764	Hs.101514	1.00E-133	1	hypothetical protein FLJ10342, clone MGC:27
193G3	3368	3659	AL139349	Hs.102178	3.00E-88	1	DNA sequence from clone RP11-261P9 on chromosome 20.
62H5	3035	4257	AF193339	Hs.102508	0	5	eukaryotic translation initiation factor 2 a
46E2	3223	4023	NM_004836	Hs.102506	0	2	eukaryotic translation initiation factor 2-a
460C4	151	635	AW978361	Hs.102630	0	2	EST390470 cDNA /gb=AW978361 /gi=8169626 /ug=
58E4	1	321	BF970875	Hs.102647	1.00E-177	2	602271536F1 cDNA, 5' end /clone=IMAGE:4359609
189G9	5473	6137	NM_018489	Hs.102652	0	2	hypothetical protein ASH1 (ASH1), mRNA /cds=(
111H5	3043	3331	AK000354	Hs.102669	1.00E-125	1	cDNA FLJ20347 fis, clone HEP13790 /cds=(708,14
465B8	27	348	AI707589	Hs.102793	1.00E-164	1	as30b05.x1 cDNA, 3' end /clone=IMAGE:2318673
126G11	1069	1431	NM_016128	Hs.102950	0	2	coat protein gamma-cop (LOC51137), mRNA /cds=
165H5	328	584	BF698884	Hs.103180	4.00E-71	1	602126455F1 cDNA, 5' end /clone=IMAGE:4283340
108H6	2135	2505	AB023187	Hs.103329	1.00E-59	1	for KIAA0970 protein, complete cds /cds=(
521C9	1440	1962	AL136885	Hs.103378	0	2	mRNA; cDNA DKFZp434P118 (from clone DKFZp434P1

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

458C9	3876	4415	AF254411	Hs.103521 0	1	ser/arg-rich pre-mRNA splicing factor SR-A1 (
99F6	349	767	NM_018623	Hs.103657 0	5	hypothetical protein PRO2219 (PRO2219), mRNA
162G11	1745	2161	AF117829	Hs.103755 1.00E-151	1	8q21.3: RICK gene /cds=(224,1846) /gb=AF11782
188G1	1757	2566	NM_004501	Hs.103804 0	2	heterogeneous nuclear ribonucleoprotein U (
470F7	56	302	NM_024056	Hs.103834 1.00E-137	1	hypothetical protein MGC5576 (MGC5576), mRNA
460A11	225	288	BG033732	Hs.103902 3.00E-29	1	602301101F1 cDNA, 5' end /clone=IMAGE:4402465
522H7	2157	2397	NM_006342	Hs.104019 1.00E-132	1	transforming, acidic coiled-coil containing
39E5	1007	2535	L12168	Hs.104125 0	10	adenylyl cyclase-associated protein (CAP) mRN
98C11	1023	2558	NM_006367	Hs.104125 0	29	adenylyl cyclase-associated protein (CAP), m
461B2	88	221	AW968823	Hs.104157 1.00E-38	1	EST380899 cDNA /gb=AW968823 /gi=8158664 /ug=
110A4	4010	4306	AB023143	Hs.104305 1.00E-125	1	for KIAA0926 protein, complete cds /cds=(
122H5	4634	5232	NM_014922	Hs.104305 0	2	KIAA0926 protein (KIAA0926), mRNA /cds=(522,4
105C2	1817	2174	AB020669	Hs.104315 0	1	for KIAA0862 protein, complete cds /cds=(
37G4	1321	2886	AF016495	Hs.104624 0	46	small solute channel 1 (SSC1) mRNA, complete cd
98D4	1578	2946	NM_020980	Hs.104624 0	71	aquaporin 9 (AQP9), mRNA /cds=(286,1173) /gb=
458E6	1007	1399	NM_015898	Hs.104640 0	1	HIV-1 inducer of short transcripts binding pro
462C11	1037	1532	NM_018492	Hs.104741 0	1	PDZ-binding kinase; T-cell originated protein
118G4	1940	2513	BC002538	Hs.104879 0	2	serine (or cysteine) proteinase inhibitor, c
496A7	1	618	BG035120	Hs.104893 0	4	602324815F1 cDNA, 5' end /clone=IMAGE:4413099
112G4	3421	3933	NM_003633	Hs.104925 0	2	ectodermal-neural cortex (with BTB-like doma
460E2	16	460	AI479075	Hs.104985 0	1	tm30h01.x1 cDNA, 3' end /clone=IMAGE:2158129
461H4	1500	1781	NM_020979	Hs.105052 1.00E-148	1	adaptor protein with pleckstrin homology and
469C7	231	380	NM_018331	Hs.105216 1.00E-77	1	hypothetical protein FLJ11125 (FLJ11125), mR
461B6	84	489	AA489227	Hs.105230 0	1	aa57f07.s1 cDNA, 3' end /clone=IMAGE:825061 /
462D5	1735	2129	NM_015393	Hs.105460 0	1	DKFZP564O0823 protein (DKFZP564O0823), mRNA
465H7	1	624	NM_017780	Hs.105461 0	1	hypothetical protein FLJ20357 (FLJ20357), mR
471F3	819	1126	AY007243	Hs.105484 1.00E-160	1	regenerating gene type IV mRNA, complete cds /
473C1	42	479	AW970759	Hs.105621 0	1	EST382842 cDNA /gb=AW970759 /gi=8160604 /ug=
102A9	1	331	AK025947	Hs.105664 0	1	FLJ22294 fls, clone HRC04426 /cds=(240,6
465G9	193	524	AI475680	Hs.105676 0	1	tc93d12.x1 cDNA, 3' end /clone=IMAGE:2073719
469G2	1528	1625	AK022481	Hs.105779 8.00E-38	1	cDNA FLJ12419 fls, clone MAMMA1003047, highly
482A9	289	839	NM_012483	Hs.105806 0	3	granulysin (GNLY), transcript variant 519, m
595B11	918	1300	NM_002343	Hs.105938 0	1	lactotransferrin (LTF), mRNA /cds=(294,2429)
69B3	3649	4226	Y13247	Hs.106019 0	1	fb19 mRNA /cds=(539,3361) /gb=Y13247 /gi=2117
459E8	106	563	NM_013322	Hs.106260 0	1	sorting nexin 10 (SNX10), mRNA /cds=(128,733)
459E2	1939	2361	NM_003171	Hs.106469 0	1	suppressor of var1 (S.cerevisiae) 3-like 1 (S-
98H12	658	1040	BC002748	Hs.106650 0	2	Similar to hypothetical protein FLJ20533, cl
594H5	1418	1501	NM_001568	Hs.106873 8.00E-38	1	eukaryotic translation initiation factor 3,
194H12	751	1233	NM_021626	Hs.106747 0	1	serine carboxypeptidase 1 precursor protein (
138G6	2749	3214	AF189723	Hs.106778 0	3	calcium transport ATPase ATP2C1 (ATP2C1A) mRN
56A5	1	1089	AL355722	Hs.106875 0	2	EST from clone 35214, full insert /cds=UNKNOWN
67H8	844	1102	X71490	Hs.106876 1.00E-103	1	vacuolar proton ATPase, subunit D /cds=(2
463G10	538	725	AF035306	Hs.106890 1.00E-102	1	clone 23771 mRNA sequence /cds=UNKNOWN
121H2	14	394	NM_016619	Hs.107139 0	1	/gb=AF
185D12	118	884	NM_001564	Hs.107153 0	3	hypothetical protein (LOC51316), mRNA /cds=(
186D6	1140	1607	NM_017892	Hs.107213 0	1	inhibitor of growth family, member 1-like (ING
462B10	192	541	AI707896	Hs.107369 1.00E-168	1	hypothetical protein FLJ20585 (FLJ20585), mR
59A10	1694	2335	AJ270952	Hs.107393 0	3	as34a10.x1 cDNA, 3' end /clone=IMAGE:2319066
499G1	2987	4266	AL035683	Hs.107526 1.00E-104	2	for putative membrane protein (GENX-3745
466F11	327	493	AI391443	Hs.107622 9.00E-90	1	DNA sequence from clone RP5-1063B2 on
182F9	153	649	AF265439	Hs.107707 0	1	chromosome 20q1
481F9	1216	1609	NM_016270	Hs.107740 0	2	tf96e06.x1 cDNA, 3' end /clone=IMAGE:2107138
						DC37 mRNA, complete cds /cds=(5,856) /gb=AF26
						Kruppel-like factor (LOC51713), mRNA /cds=(84

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

184H4	189	576	AF081282	Hs.107979 0	1	small membrane protein 1 (SMP1) mRNA, complete
103E11	1006	2137	NM_014313	Hs.107979 0	4	small membrane protein 1 (SMP1), mRNA /cds=(99,
596H7	1265	1771	NM_004078	Hs.108080 0	3	cysteine and glycine-rich protein 1 (CSR1), m
46H8	777	914	AF070640	Hs.108112 2.00E-47	1	clone 24781 mRNA sequence /cds=UNKNOWN /gb=AF
53B4	1552	1967	U32986	Hs.108327 0	2	xeroderma pigmentosum group E UV-damaged DNA binding
124A10	1089	1733	AK001428	Hs.108332 0	3	cDNA FLJ10566 fis, clone NT2RP2002959, highly
127F8	428	746	AL136941	Hs.108338 0	1	mRNA; cDNA DKFZp586C1924 (from clone DKFZp586
191G10	518	883	AL136640	Hs.108548 0	2	mRNA; cDNA DKFZp564F163 (from clone DKFZp564F1
458G8	2374	5101	NM_016227	Hs.108636 0	2	membrane protein CH1 (CH1), mRNA /cds=(124,434
58F11	735	798	NM_006963	Hs.108642 2.00E-28	1	zinc finger protein 22 (KOX 15) (ZNF22), mRNA /
118B5	2715	2797	AK022874	Hs.108779 2.00E-38	1	cDNA FLJ12812 fis, clone NT2RP2002498 /cds=(3,
110H2	18	661	AF026292	Hs.108809 0	1	chaperonin containing t-complex polypeptide
181G4	1008	1142	NM_008429	Hs.108809 2.00E-71	1	chaperonin containing TCP1, subunit 7 (eta) (C
189F11	415	615	AK024569	Hs.108854 2.00E-79	1	cDNA: FLJ20916 fis, clone ADSE00738, highly s
596F8	5958	6097	AB011087	Hs.108945 8.00E-48	1	mRNA for KIAA0515 protein, partial cds /cds=(0,
157D8	399	830	NM_016145	Hs.108969 0	1	PTD008 protein (PTD008), /cds=(233,553)
175E7	712	1849	AL133111	Hs.109150 0	2	mRNA; cDNA DKFZp434H068 (from clone DKFZp434H0
514E1	66	613	NM_012417	Hs.109219 0	4	retinal degeneration B beta (RDGBB), mRNA /cd
106A4	1864	2220	AJ011895	Hs.109281 1.00E-111	1	for HIV-1, Nef-associated factor 1 alpha
169E1	938	1331	AK024297	Hs.109441 0	2	FLJ14235 fis, clone NT2RP4000167 /cds=(82
100B8	1	191	NM_012458	Hs.109571 3.00E-85	1	translocase of inner mitochondrial membrane 1
115B7	983	1193	NM_007074	Hs.109606 1.00E-116	1	coronin, actin-binding protein, 1A (CORO1A),
62H11	1	626	BF245892	Hs.109641 1.00E-154	10	601864070F1 cDNA, 5' end /clone=IMAGE:4082465
595B2	4976	5286	AB040884	Hs.109694 1.00E-142	1	mRNA for KIAA1451 protein, partial cds /cds=(0
75H11	227	482	BF244603	Hs.109697 1.00E-129	1	601862620F1 cDNA, 5' end /clone=IMAGE:4080412
118G3	219	392	NM_024292	Hs.109701 2.00E-66	1	ubiquitin-like 5 (UBL5), mRNA /cds=(65,286) /
105A5	3271	3532	AL117407	Hs.109727 1.00E-147	2	cDNA DKFZp434D2050 (from clone DKFZp434D
481B7	1101	1201	NM_006026	Hs.109804 9.00E-42	1	H1 histone family, member X (H1FX), mRNA /cds=(
476H12	1018	1429	NM_004310	Hs.109918 0	3	ras homolog gene family, member H (ARH), mRNA
144C8	1252	1429	Z35227	Hs.109918 7.00E-92	1	TTF for small G protein /cds=(579,1154) /gb=
141E10	630	1269	AK001779	Hs.110445 0	4	FLJ10917 fis, clone OVARC1000321 /cds=(18
494D8	4102	4476	NM_014918	Hs.110488 0	1	KIAA0990 protein (KIAA0990), mRNA /cds=(494,2
47C3	2298	2431	D86974	Hs.110613 1.00E-60	1	KIAA0220 gene, partial cds /cds=(0,1661) /gb
194C10	1210	1704	AL157477	Hs.110702 0	1	mRNA; cDNA DKFZp761E212 (from clone DKFZp761E2
192F1	3254	3686	NM_015726	Hs.110707 1.00E-150	2	H326 (H326), mRNA /cds=(176,1969) /gb=NM_0157
595B8	1148	1414	NM_003472	Hs.110713 1.00E-147	1	DEK oncogene (DNA binding) (DEK), mRNA /cds=(3
459F3	3337	3915	NM_001046	Hs.110736 0	1	solute carrier family 12 (sodium/potassium/ch
195F5	1051	1482	AK025557	Hs.110771 0	2	cDNA: FLJ21904 fis, clone HEP03585 /cds=UNKNOWN
53B10	163	742	NM_020150	Hs.110798 0	1	SAR1 protein (SAR1), mRNA /cds=(100,696) /gb=
164B11	122	932	NM_016039	Hs.110803 0	5	CGI-99 protein (LOC51637), mRNA /cds=(161,895
594H4	982	1454	AK026528	Hs.111222 6.00E-95	3	cDNA: FLJ22875 fis, clone KAT02879 /cds=(30,51
50A10	1688	2095	AF119897	Hs.111334 0	2	PRO2760 mRNA, complete cds /cds=UNKNOWN /gb=A
102H11	175	498	AI436587	Hs.111377 1.00E-148	1	ti03d11.x1 cDNA, 3' end /clone=IMAGE:2129397
109G11	1324	1388	AB016811	Hs.111554 2.00E-29	1	for ADP ribosylation factor-like protein,
144E10	77	304	BF219474	Hs.111611 1.00E-122	2	601884269F1 5' end /clone=IMAGE:4102769

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

583C9	4	272	NM_000988	Hs.111611	1.00E-148	10	ribosomal protein L27 (RPL27), mRNA /cds=(17,4
111F4	31	380	NM_014463	Hs.111632	0	1	Lsm3 protein (LSM3), mRNA /cds=(29,337) /gb=N
108E6	2646	2892	AL096723	Hs.111801	1.00E-135	1	cDNA DKFZp564H2023 (from clone DKFZp564H
169A2	773	1015	D14696	Hs.111894	1.00E-135	2	KIAA0108 gene, complete cds /cds=(146,847) /
182D6	264	748	NM_014713	Hs.111894	0	1	lysosomal-associated protein transmembrane
460D11	205	452	AI557431	Hs.111973	4.00E-60	1	PT2.1_7_C05.r cDNA, 3' end /clone_end=3' /gb=
121A7	355	589	NM_020382	Hs.111988	1.00E-128	1	PR/SET domain containing protein 07 (SET07), m
476C12	254	463	AA442585	Hs.112071	1.00E-111	1	zv57f09.r1 cDNA, 5' end /clone=IMAGE:757769 /
172E7	469	736	AF228422	Hs.112242	1.00E-143	1	normal mucosa of esophagus specific 1 (NMES1)
108E10	4800	4901	AF071076	Hs.112255	6.00E-48	1	cell-line HeLa Nup98-Nup96 precursor, mRNA, c
47G12	1	301	BF237710	Hs.112318	1.00E-165	5	601842210F1 cDNA, 5' end /clone=IMAGE:4079930
599G7	38	455	NM_019059	Hs.112318	0	32	6.2 kd protein (LOC54543), mRNA /cds=(93,260)
469F9	226	546	NM_002638	Hs.112341	1.00E-107	1	protease inhibitor 3, skin-derived (SKALP) (P
589G11	482	1336	AK026396	Hs.112497	0	2	cDNA: FLJ22743 fis, clone HUV00901
							/cds=UNKNOWN
464F10	1686	1917	NM_002978	Hs.112842	1.00E-119	1	sodium channel, nonvoltage-gated 1, delta (SC
54B11	1	423	BF025727	Hs.113029	0	26	601670406F1 cDNA, 5' end /clone=IMAGE:3953425
591C5	31	469	NM_001028	Hs.113029	0	10	ribosomal protein S25 (RPS25), mRNA /cds=(71,4
585F4	1882	3918	AK027136	Hs.113205	1.00E-130	3	cDNA: FLJ23483 fis, clone KAI04052 /cds=UNKNO
61B12	1168	2386	AF105253	Hs.113368	0	5	neuroendocrine secretory protein 55 mRNA, com
163D9	3470	4109	Y08890	Hs.113503	0	1	mRNA for Ran_GTP binding protein 5
466C4	276	946	AL359916	Hs.113872	0	1	DNA sequence from clone RP11-550O8 on
							chromosome 20 C
592C12	2506	2696	AF323540	Hs.114309	2.00E-80	1	apolipoprotein L-I mRNA, splice variant B, co
476A11	121	528	AA702108	Hs.114931	0	1	zl85e01.s1 cDNA, 3' end /clone=IMAGE:447576 /
109F4	3123	3521	D30783	Hs.115263	0	1	for epiregulin, complete cds /cds=(166,67
123D1	3123	3526	NM_001432	Hs.115263	0	1	epiregulin (EREG), mRNA /cds=(166,675) /gb=N
465D7	1	175	BG288391	Hs.115467	1.00E-94	1	602388053F1 cDNA, 5' end /clone=IMAGE:4517076
74H9	346	802	AK027114	Hs.115659	1.00E-108	1	FLJ23461 fis, clone HSI07757 /cds=UNKNOWN
585E4	384	1146	NM_024061	Hs.115659	0	3	hypothetical protein MGC5521 (MGC5521), mRNA
462C1	945	1222	NM_024036	Hs.115960	1.00E-152	1	hypothetical protein MGC3103 (MGC3103), mRNA
464E4	1276	1635	AK023633	Hs.116278	1.00E-138	1	cDNA FLJ13571 fis, clone PLACE1008405 /cds=UNK
43B10	1601	1798	AF283777	Hs.116481	9.00E-47	1	clone TCBAPO702 mRNA sequence /cds=UNKNOWN
							/g
465G1	374	654	NM_001782	Hs.116481	5.00E-85	2	CD72 antigen (CD72), mRNA /cds=(108,1187) /gb
51G8	29	203	BF341330	Hs.116567	6.00E-26	1	602013274F1 cDNA, 5' end /clone=IMAGE:4149066
40D10	2694	3430	X68742	Hs.116774	0	1	Integrin, alpha subunit /cds=UNKNOWN /g
107D1	1778	1943	U71383	Hs.117005	1.00E-84	1	OB binding protein-2 (OB-BP2) mRNA, complete cds
							/cds
459D4	2882	3522	AK025364	Hs.117268	0	1	cDNA: FLJ21711 fis, clone COL10156 /cds=UNKNOWN
473E8	2104	2233	AB029016	Hs.117333	2.00E-65	3	mRNA for KIAA1093 protein, partial cds /cds=(0
458E2	88	627	AI825645	Hs.117906	0	2	wb75b09.x1 cDNA, 3' end /clone=IMAGE:2311481
163A7	1160	1420	X53793	Hs.117950	1.00E-109	1	ADE2H1 mRNA showing homologies to SAICAR
							synthetase
123B8	18	740	NM_002799	Hs.118065	0	1	proteasome (prosome, macropain) subunit, bet
583G3	924	1199	AB011182	Hs.118087	1.00E-155	4	mRNA for KIAA0610 protein, partial cds /cds=(0,
127A1	263	557	NM_008441	Hs.118131	1.00E-141	1	5,10-methylenetetrahydrofolate synthetase (
459A10	188	817	AL522477	Hs.118142	0	1	AL522477 cDNA /clone=CS0DB008YK14-(3-prime)
584A10	8484	8875	NM_003316	Hs.118174	0	1	tetratricopeptide repeat domain 3 (TTC3), mRN
52D4	1287	1752	AK026486	Hs.118183	0	1	FLJ22833 fis, clone KAI04266 /cds=(479,8
470B6	68	532	BF030930	Hs.118303	0	1	601558648F1 cDNA, 5' end /clone=IMAGE:3828706
41B3	5041	5669	M14648	Hs.118512	0	1	cell adhesion protein (vitronectin) receptor alpha s

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

125B8	999	1573	NM_003733	Hs.118633	0	1	2'-5'oligoadenylate synthetase-like (OASL),
459D3	3	427	AI052447	Hs.118659	0	1	oz07g04.x1 cDNA, 3' end /clone=IMAGE:1674678
112F11	191	387	NM_006923	Hs.118684	1.00E-103	1	stromal cell-derived factor 2 (SDF2), mRNA /c
129E4	1727	1891	AL050404	Hs.118695	2.00E-86	1	DNA sequence from clone 955M13 on chromosome 20. Conta
126H2	1512	2209	NM_000358	Hs.118787	0	2	transforming growth factor, beta-induced, 68
598D9	817	1106	NM_001155	Hs.118798	1.00E-108	1	annexin A6 (ANXA6), transcript variant 1, mRN
331E6	89	475	BE311727	Hs.118857	0	1	601143334F1 cDNA, 5' end /clone=IMAGE:3507009
521C1	700	1180	NM_006292	Hs.118910	0	2	tumor susceptibility gene 101 (TSG101), mRNA
139E8	463	1198	AJ012506	Hs.118958	0	1	activated in tumor suppression, clone TSA
69H2	578	1117	U05040	Hs.118962	0	1	FUSE binding protein mRNA, complete cds /cds=(26,1980
461F1	1241	1715	AK024119	Hs.118990	0	1	cDNA FLJ14057 fis, clone HEMBB1000337 /cds=UNK
481E1	1682	1969	NM_017544	Hs.119018	1.00E-129	1	transcription factor NRF (NRF), mRNA /cds=(653
479B4	45	203	AL109806	Hs.119057	5.00E-43	1	DNA sequence from clone RP5-1153D9 on chromosome 20 C
520F1	177	672	NM_012423	Hs.119122	1.00E-148	8	ribosomal protein L13a (RPL13A), mRNA /cds=(1
477E4	46	1565	AL109786	Hs.119155	0	3	mRNA full length insert cDNA clone EUROIMAGE 81
166F10	304	814	M37583	Hs.119192	0	3	histone (H2A.Z) mRNA, complete cds /cds=(106,492) /g
592E5	302	814	NM_002106	Hs.119192	0	7	H2A histone family, member Z (H2AFZ), mRNA /cd
54B1	47	1144	AJ400717	Hs.119252	0	9	TPT1 gene for translationally controlled tumo
594H9	609	1013	NM_000520	Hs.119403	0	1	hexosaminidase A (alpha polypeptide) (HEXA),
492D9	30	272	NM_001004	Hs.119500	1.00E-135	2	ribosomal protein, large P2 (RPLP2), mRNA /cd
59H8	14	1890	NM_016091	Hs.119503	0	12	HSPC025 (HSPC025), mRNA /cds=(33,1727) /gb=N
525E8	12	446	NM_006432	Hs.119529	0	2	epididymal secretory protein (19.5kD) (HE1),
166G7	1323	2293	M88108	Hs.119537	0	3	p62 mRNA, complete cds /cds=(106,1437) /gb=M88108 /g
112D10	1054	1722	NM_006559	Hs.119537	0	1	GAP-associated tyrosine phosphoprotein p62
158E9	847	1273	AL022326	Hs.119598	0	1	DNA sequence from clone 333H23 on chromosome 22q12.1-1
161H7	738	1272	NM_000967	Hs.119598	0	1	ribosomal protein L3 (RPL3), mRNA /cds=(6,1217
168F8	284	778	M34671	Hs.119663	0	1	lymphocytic antigen CD59/MEM43 mRNA, complete cds /c
585C9	285	783	NM_000611	Hs.119663	0	1	CD59 antigen p18-20 (antigen identified by mo
143G12	753	1329	AK023975	Hs.119908	0	4	FLJ13913 fis, clone Y79AA1000231, highly
55D12	1107	1365	NM_015934	Hs.119908	1.00E-119	1	nucleolar protein NOP5/NOP58 (NOP5/NOP58), m
467E7	37	419	AI492066	Hs.119923	0	1	tg12b03.x1 cDNA, 3' end /clone=IMAGE:2108525
462C10	2669	3025	NM_012318	Hs.120165	0	1	leucine zipper-EF-hand containing transmembr
473F11	396	1006	AK025068	Hs.120170	0	1	cDNA: FLJ21415 fis, clone COL04030 /cds=(138,7
98E11	211	458	AW081455	Hs.120219	1.00E-114	2	xc31c07.x1 cDNA, 3' end /clone=IMAGE:2585868
471C8	60	301	NM_014487	Hs.120768	1.00E-120	1	nucleolar cysteine-rich protein (HSA6591), m
134C4	284	529	AK000470	Hs.120769	9.00E-98	1	cDNA FLJ20463 fis, clone KAT06143 /cds=UNKNOWN
469C10	1	441	AA677952	Hs.120891	0	1	zi14a06.s1 cDNA, 3' end /clone=IMAGE:430738 /
60C9	1022	1615	AB011421	Hs.120996	0	1	for DRAK2, complete cds /cds=(261,1379) /
461A7	738	1274	NM_014205	Hs.121025	0	1	chromosome 11 open reading frame 5 (C11ORF5), m
104A4	557	1942	D89974	Hs.121102	0	4	for glycosylphosphatidylinositol-anch
196C9	557	1463	NM_004665	Hs.121102	0	9	vanin 2 (VNN2), mRNA /cds=(11,1573) /gb=NM_004
467F4	4	328	AW972196	Hs.121210	1.00E-162	1	EST384285 cDNA /gb=AW972196 /gl=8162042 /ug=
587A12	224	367	AW975541	Hs.121572	1.00E-62	1	EST387650 cDNA /gb=AW975541 /gl=8166755 /ug=
36G5	13	604	AL008729	Hs.121591	0	1	DNA sequence from PAC 257A7 on chromosome 6p24. Contai
464C1	120	413	AA772692	Hs.121709	1.00E-120	1	ai35b09.s1 cDNA, 3' end /clone=1358969 /clone

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

36E2	411	821	AK025556	Hs.121849 0	1	FLJ21903 fis, clone HEP03579 /cds=(84,46
196A6	411	1113	NM_022818	Hs.121849 0	1	Microtubule-associated proteins 1A and 1B, I
471G2	176	333	AW469546	Hs.122116 2.00E-84	1	hd19e09.x1 cDNA, 3' end /clone=IMAGE:2909992
462F5	218	611	BF677944	Hs.122406 1.00E-166	1	602084766F1 cDNA, 5' end /clone=IMAGE:4248905
465A6	376	478	AV762642	Hs.122431 2.00E-28	1	AV762642 cDNA, 5' end /clone=MDSEMB08 /clone_
467G10	603	803	AL040371	Hs.122487 9.00E-96	1	DKFZp434P0213_r1 cDNA, 5' end /clone=DKFZp434
465C12	66	260	AI804629	Hs.122848 3.00E-83	1	tc81g03.x1 cDNA, 3' end /clone=IMAGE:2072596
98H6	442	591	AI081246	Hs.122983 5.00E-78	1	oy67b06.x1 cDNA, 3' end /clone=IMAGE:1670867
52B4	123	236	BE676541	Hs.123254 8.00E-46	1	7f31g03.x1 cDNA, 3' end /clone=IMAGE:3296308
128C7	4875	5186	AB020631	Hs.123654 1.00E-131	1	mRNA for KIAA0824 protein, partial cds /cds=(0
184B5	594	1187	AL109865	Hs.124186 0	1	DNA sequence from clone GS1-120K12 on chromosome 1q25
106A6	1135	1456	AK026776	Hs.124292 9.00E-99	1	FLJ23123 fis, clone LNG08039 /cds=UNKNOWN
525G12	314	503	BF996704	Hs.124344 1.00E-72	1	MR1-GN0173-071100-009-g10 cDNA /gb=BF996704
466C3	120	496	AA831838	Hs.124391 1.00E-172	1	oc85h06.s1 cDNA, 3' end /clone=IMAGE:1356539
48G4	1	568	AA203497	Hs.124601 0	1	zx58g05.r1 cDNA, 5' end /clone=IMAGE:446744 /
517G2	577	756	AA858297	Hs.124675 3.00E-61	1	ob13b08.s1 cDNA, 3' end /clone=IMAGE:1323543
107H3	913	1220	AK023013	Hs.124762 1.00E-174	1	FLJ12951 fis, clone NT2RP2005457, highly
473A7	729	929	NM_019062	Hs.124835 4.00E-82	1	hypothetical protein (FLJ20225), mRNA /cds=(
108D12	3225	3531	AF023142	Hs.125134 1.00E-142	2	pre-mRNA splicing SR protein r4A mRNA, partial
463E11	158	519	AJ380443	Hs.125608 0	1	tg02f04.x1 cDNA, 3' end /clone=IMAGE:2107615
104F6	1581	2028	NM_019853	Hs.125682 0	1	protein phosphatase 4 regulatory subunit 2 (P
462A5	5	282	AW975851	Hs.125815 1.00E-149	1	EST387960 cDNA /gb=AW975851 /gi=8167072 /ug=
462B1	534	702	AJ378032	Hs.125892 1.00E-69	1	te67g08.x1 cDNA, 3' end /clone=IMAGE:2091806
121A6	3074	3494	AB028978	Hs.126084 1.00E-174	1	mRNA for KIAA1055 protein, partial cds /cds=(0
171G12	94	1240	M15330	Hs.126256 0	7	Interleukin 1-beta (IL1B) mRNA, complete cds /cds=(86
183D12	100	1275	NM_000576	Hs.126256 0	9	interleukin 1, beta (IL1B), mRNA /cds=(86,895)
458B2	6	415	AJ393205	Hs.126265 0	1	tg14b07.x1 cDNA, 3' end /clone=IMAGE:2108725
102G6	885	1906	AJ271684	Hs.126355 1.00E-171	2	for myeloid DAP12-associating lectin (MD
463E4	847	1015	NM_013252	Hs.126355 2.00E-89	1	C-type (calcium dependent, carbohydrate-recog
167B2	2468	2721	AF195514	Hs.126550 1.00E-142	1	VPS4-2 ATPase (VPS42) mRNA, complete cds /cds=
473D8	19	397	BF445163	Hs.126594 0	1	nad21d12.x1 cDNA, 3' end /clone=IMAGE:3366191
143C9	333	551	BE250027	Hs.126701 1.00E-121	1	600943030F1 cDNA, 5' end /clone=IMAGE:2959639
471E10	806	945	AK021519	Hs.126707 2.00E-71	1	cDNA FLJ11457 fis, clone HEMBA1001522 /cds=(1
462B4	159	572	NM_017762	Hs.126721 0	1	hypothetical protein FLJ20313 (FLJ20313), mR
41D8	1	2519	AK023275	Hs.126925 0	5	FLJ13213 fis, clone NT2RP4001126, weakly
463F5	2	563	NM_014464	Hs.127011 0	1	tubulointerstitial nephritis antigen (TIN-A
597C8	2662	2905	AB046765	Hs.127270 1.00E-136	1	mRNA for KIAA1545 protein, partial cds /cds=(0
458F11	15	212	BF508731	Hs.127311 8.00E-81	1	UI-H-BI4-aoc-b-08-0-UI.s1 cDNA, 3' end /clon
462B3	76	389	AW978753	Hs.127327 1.00E-133	1	EST390862 cDNA /gb=AW978753 /gi=8170027 /ug=
463E2	176	787	AI028267	Hs.127514 0	1	ow01d08.x1 cDNA, 3' end /clone=IMAGE:1645547
465G5	181	372	AA953396	Hs.127557 6.00E-78	1	on63h10.s1 cDNA, 3' end /clone=IMAGE:1561411
463E10	11190	11634	NM_016239	Hs.127561 0	1	unconventional myosin-15 (LOC51168), mRNA /c
476A9	27	216	AW384918	Hs.127574 1.00E-101	1	PM1-HT0422-291299-002-d01 cDNA /gb=AW384918
111B10	1825	2463	NM_014007	Hs.127649 0	1	KIAA0414 protein (KIAA0414), mRNA /cds=(1132,
499A7	2134	5198	AF070674	Hs.127799 0	8	inhibitor of apoptosis protein-1 (MIHC) mRNA,
331F5	4	460	BF342439	Hs.127863 0	1	602013944F1 cDNA, 5' end /clone=IMAGE:4149562
176A12	796	1351	NM_022900	Hs.128003 0	1	hypothetical protein FLJ21213 (FLJ21213), mR
462B5	1766	1949	NM_014406	Hs.128342 5.00E-82	1	potassium large conductance calcium-activate

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

467D5	157	279	AI222805	Hs.128630	6.00E-62	1	qp39c07.x1 cDNA, 3' end /clone=IMAGE:1925388
465G3	1	529	BE222032	Hs.128675	0	1	hr61g11.x1 cDNA, 3' end /clone=IMAGE:3133028
467C7	1172	1726	AF118274	Hs.128740	0	1	DNb-5 mRNA, partial cds /cds=(0,1601) /gb=AF11
175G11	358	724	AL110151	Hs.128797	0	1	mRNA; cDNA DKFZp586D0824 (from clone DKFZp586
472A12	402	782	BE745645	Hs.129135	1.00E-153	1	601578727F1 cDNA, 5' end /clone=IMAGE:3927535
473C7	46	217	BE670584	Hs.129192	3.00E-37	1	7e36h08.x1 cDNA, 3' end /clone=IMAGE:3284607
463G11	7	397	AA746320	Hs.129572	0	1	ob08f01.s1 cDNA, 3' end /clone=IMAGE:1323097
63D8	18	1167	D13748	Hs.129673	0	4	eukaryotic initiation factor 4A /cds=(16,12
57F3	19	1279	NM_001416	Hs.129673	0	4	eukaryotic translation initiation factor 4A,
144G5	1071	1192	AF064090	Hs.129708	3.00E-62	3	ligand for herpesvirus entry mediator (HVEM-L)
118A9	2684	3198	AB046805	Hs.129750	0	1	mRNA for KIAA1585 protein, partial cds /cds=(2
50G5	1119	1440	AK024068	Hs.129872	1.00E-172	1	FLJ14006 fis, clone Y79AA1002399, highly
469D6	376	603	D43968	Hs.129914	1.00E-126	1	AML1 mRNA for AML1b protein (alternatively spliced pr
590G11	823	1571	NM_003563	Hs.129951	0	3	speckle-type POZ protein (SPOP), mRNA /cds=(15
591C7	68	571	NM_005243	Hs.129953	0	1	Ewing sarcoma breakpoint region 1 (EWSR1), tra
459F5	579	768	AI763262	Hs.130059	1.00E-35	1	wi66c04.x1 cDNA, 3' end /clone=IMAGE:2398278
479A10	259	448	AI089359	Hs.130232	1.00E-103	1	qb05h03.x1 cDNA, 3' end /clone=IMAGE:1695413
461G5	193	347	AW898615	Hs.130729	2.00E-68	1	RC1-NN0073-090500-012-f02 cDNA /gb=AW898615-
466B1	373	569	AI347054	Hs.130879	1.00E-76	1	qp60a04.x1 cDNA, 3' end /clone=IMAGE:1927374
463G3	3212	5430	AJ404611	Hs.130881	0	2	mRNA for B-cell lymphoma/leukaemia 11A extra
462C3	48	468	AI421808	Hs.131067	0	1	tf44h11.x1 cDNA, 3' end /clone=IMAGE:2099109
596G10	39	491	NM_006294	Hs.131255	0	3	ubiquinol-cytochrome c reductase binding pro
469G10	189	361	AI024984	Hs.131580	1.00E-81	1	ov39d11.x1 cDNA, 3' end /clone=IMAGE:1639701
458B7	169	659	AW978870	Hs.131828	0	1	EST390979 cDNA /gb=AW978870 /gi=8170147 /ug=
63D1	185	500	AF176706	Hs.131859	1.00E-133	1	F-box protein FBX11 mRNA, partial cds /cds=(0,
58C10	4188	4313	NM_014913	Hs.131915	2.00E-65	1	KIAA0863 protein (KIAA0863), mRNA /cds=(185,3
117H2	282	569	NM_003608	Hs.131924	1.00E-143	1	G protein-coupled receptor 65 (GPR65), mRNA /
462D11	441	683	AW976422	Hs.132064	1.00E-118	1	EST388531 cDNA /gb=AW976422 /gi=8167649 /ug=
586F11	161	1094	NM_017830	Hs.132071	0	2	hypothetical protein FLJ20455 (FLJ20455), mR
466A8	118	224	AI042377	Hs.132156	2.00E-44	1	ox62c03.x1 cDNA, 3' end /clone=IMAGE:1660900
472F6	979	1431	AK022463	Hs.132221	0	1	cDNA FLJ12401 fis, clone MAMMA1002796 /cds=(3,
462E4	19	567	AI031656	Hs.132237	0	1	ow48e06.x1 cDNA, 3' end /clone=IMAGE:1650082
462E2	4	539	AI829569	Hs.132238	0	1	wf28e02.x1 cDNA, 3' end /clone=IMAGE:2356922
461H9	453	618	BG037042	Hs.132555	4.00E-57	1	602288311F1 cDNA, 5' end /clone=IMAGE:4374122
467D10	4518	4689	AK024449	Hs.132569	2.00E-55	1	mRNA for FLJ00041 protein, partial cds /cds=(0
463H7	162	438	AI346336	Hs.132594	1.00E-132	1	qp50b04.x1 cDNA, 3' end /clone=IMAGE:1926415
592B8	2415	2957	NM_005337	Hs.132834	0	1	hematopoietic protein 1 (HEM1), mRNA /cds=(158
70H2	6370	6718	AF047033	Hs.132904	1.00E-175	1	sodium bicarbonate cotransporter 3 (SLC4A7) m
50G10	1167	2041	AL121985	Hs.132906	0	4	DNA sequence from clone RP11-404F10 on
123C10	1323	1570	NM_015071	Hs.132942	1.00E-136	1	chromosome 1q2
121B10	92	503	AA504269	Hs.133032	0	1	GTPase regulator associated with the focal adh
171A12	696	909	AL050035	Hs.133130	6.00E-83	1	aa61c09.s1 cDNA, 3' end /clone=IMAGE:825424 /
463B5	123	449	AI051673	Hs.133175	1.00E-176	1	mRNA; cDNA DKFZp566H0124 (from clone DKFZp566
463B7	966	1103	AL044498	Hs.133262	3.00E-46	1	oy77g06.x1 cDNA, 3' end /clone=IMAGE:1671898
463B8	1	322	AV661783	Hs.133333	1.00E-176	1	DKFZp434I082_s1 cDNA, 3' end /clone=DKFZp434I
463A10	431	694	AW966876	Hs.133543	1.00E-110	1	AV661783 cDNA, 3' end /clone=GLCGXE12 /clone_
464B10	63	547	BF965768	Hs.133864	0	1	EST378950 cDNA /gb=AW966876 /gi=8156712 /ug=
							602276890F1 cDNA, 5' end /clone=IMAGE:4364495

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

460C6	454	653	AW009671	Hs.134272	8.00E-70	1	ws85g09.x1 cDNA, 3' end /clone=IMAGE:2504800
459C12	3337	3745	AJ278245	Hs.134342	1.00E-121	1	mRNA for LanC-like protein 2 (lanc2 gene) /cds
462G1	33	454	AI074016	Hs.134473	0	1	oy66g02.x1 cDNA, 3' end /clone=IMAGE:1670834
462G6	260	597	BE676210	Hs.134648	1.00E-156	1	7f25c05.x1 cDNA, 3' end /clone=IMAGE:3295688
466H12	505	662	AV706481	Hs.134829	3.00E-65	1	AV706481 cDNA, 5' end /clone=ADBBYF02
148H11	16	474	BE786820	Hs.135056	0	1	601477630F1 5' end /clone=IMAGE:3880471
462E1	139	487	BF109873	Hs.135106	0	1	7f70e11.x1 cDNA, 3' end /clone=IMAGE:3526772
147E6	11	364	AV712376	Hs.135167	0	2	AV712376 cDNA, 5' end /clone=DCAAND12 /clone_
465B4	1993	2237	AJ271326	Hs.135187	1.00E-92	1	mRNA for unc-93 related protein (UNC93 gene) /
463B4	185	352	AI051664	Hs.135339	4.00E-48	1	oy77f06.x1 cDNA, 3' end /clone=IMAGE:1671875
478H4	2126	2458	AK024921	Hs.135570	1.00E-170	1	cDNA: FLJ21268 fis, clone COL01718 /cds=UNKNOWN
148B6	119	444	AI004582	Hs.135764	3.00E-82	8	ou04a11.x1 3' end /clone=IMAGE:1625276
598E9	1948	2184	NM_022117	Hs.136164	3.00E-93	1	cutaneous T-cell lymphoma-associated tumor a
514C10	398	840	AL049597	Hs.136309	0	2	DNA sequence from clone RP4-612B15 on chromosome 1p22
461C6	18	219	BF513274	Hs.136375	1.00E-101	1	UI-H-BW1-amo-d-11-0-UI.s1 cDNA, 3' end /clon
482E4	291	699	BF526066	Hs.136537	1.00E-142	1	602071176F1 cDNA, 5' end /clone=IMAGE:4214059
461G7	43	466	NM_013378	Hs.136713	0	1	pre-B lymphocyte gene 3 (VPREB3), mRNA /cds=(4
119B10	10	677	NM_013269	Hs.136748	0	2	lectin-like NK cell receptor (LLT1), mRNA /cd
462A10	1233	1727	AK024426	Hs.137354	0	1	mRNA for FLJ00015 protein, partial cds /cds=(3
41F2	2684	3000	AJ223324	Hs.137548	1.00E-156	1	for MAX.3 cell surface antigen /cds=(44,10
74E8	16	2000	D10923	Hs.137555	0	15	HM74 /cds=(60,1223) /gb=D10923 /gi=219866 /
58D10	8	2000	NM_006018	Hs.137555	0	9	putative chemokine receptor, GTP-binding pro
120E2	210	814	NM_002027	Hs.138381	0	1	farnesyltransferase, CAAX box, alpha (FNTA),
168E12	1953	2522	D38524	Hs.138593	0	1	5'-nucleotidase /cds=(83,1768) /gb=D38524
178F7	573	824	NM_006413	Hs.139120	1.00E-115	1	ribonuclease P (30kD) (RPP30), mRNA /cds=(27,8
473D1	1635	1767	AL049942	Hs.139240	6.00E-50	1	mRNA; cDNA DKFZp564F1422 (from clone DKFZp564F
188A8	924	1038	NM_017523	Hs.139262	1.00E-56	2	XIAP associated factor-1 (HSXIAPAF1), mRNA /c
168F7	933	1038	X99699	Hs.139262	1.00E-53	1	for XIAP associated factor-1 /cds=(0,953) /
181B10	1556	2517	NM_005816	Hs.142023	0	3	T cell activation, increased late expression (
514E7	2052	2339	NM_003150	Hs.142258	1.00E-114	1	signal transducer and activator of transcripti
196C7	355	524	NM_016123	Hs.142295	9.00E-92	1	putative protein kinase NY-REN-64 antigen (LO
585B10	3261	3465	AK023129	Hs.142442	1.00E-100	1	cDNA FLJ13067 fis, clone NT2RP3001712, highly
458F2	283	413	BE293343	Hs.142737	3.00E-68	1	601143756F1 cDNA, 5' end /clone=IMAGE:3051493
134C6	289	572	BE886127	Hs.142838	1.00E-160	1	601509912F1 cDNA, 5' end /clone=IMAGE:3911451
110A11	345	584	AI126688	Hs.143049	1.00E-102	1	qb94a06.x1 cDNA, 3' end /clone=IMAGE:1707730
472G7	127	452	AW976331	Hs.143254	0	1	EST388440 cDNA /gb=AW976331 /gi=8167557 /ug=
464G11	425	547	AI357640	Hs.143314	1.00E-56	1	qy15b06.x1 cDNA, 3' end /clone=IMAGE:2012051
463F11	257	640	BF446017	Hs.143389	0	1	7p18a11.x1 cDNA, 3' end /clone=IMAGE:3646004
463H2	107	443	AA825245	Hs.143410	1.00E-151	1	oe59g09.s1 cDNA, 3' end /clone=IMAGE:1415968
48B7	1	3366	NM_005813	Hs.143460	0	2	protein kinase C, nu (PRKCN), mRNA /cds=(555,32
463C9	290	405	AW173163	Hs.143525	5.00E-41	1	xj84b08.x1 cDNA, 3' end /clone=IMAGE:2663895
463C8	330	473	AI095189	Hs.143534	5.00E-57	2	oy83b06.s1 cDNA, 3' end /clone=IMAGE:1672403
464G5	94	189	BG033028	Hs.143554	1.00E-38	1	602300135F1 cDNA, 5' end /clone=IMAGE:4401776
463D7	120	563	NM_006777	Hs.143604	0	1	Kaiso (ZNF-kaiso), mRNA /cds=(0,2018) /gb=NM
471A10	132	586	AK026372	Hs.143631	0	1	cDNA: FLJ22719 fis, clone HSI14307 /cds=UNKNOWN
74G2	5129	5285	AF073310	Hs.143648	2.00E-79	2	insulin receptor substrate-2 (IRS2) mRNA, com
471G11	7	320	AI568622	Hs.143951	1.00E-154	2	tn41e10.x1 cDNA, 3' end /clone=IMAGE:2170218
478H12	963	1532	NM_018270	Hs.143954	0	1	hypothetical protein FLJ10914 (FLJ10914), mR
462G3	100	529	AI074020	Hs.144114	0	1	oy66g06.x1 cDNA, 3' end /clone=IMAGE:1670842
463C1	52	151	AI090305	Hs.144119	1.00E-42	1	oy81b01.s1 cDNA, 3' end /clone=IMAGE:1672201



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

472H8	157	485	BF509758	Hs.144265	1.00E-178	1	UI-H-B14-apg-d-04-0-UI.s1 cDNA, 3' end /clone
166E1	23	443	D63874	Hs.144321	0	1	HMG-1, complete cds /cds=(76,723) /gb=D63874
145G8	125	1606	NM_018548	Hs.144477	0	2	hypothetical protein PRO2975 (PRO2975), mRNA
191H8	46	624	BF036686	Hs.144559	0	1	601459771F1 cDNA, 5' end /clone=IMAGE:3863248
151B1	1983	2561	M93651	Hs.145279	0	2	set gene, complete cds /cds=(3,836) /gb=M93651 /gi=33
514B2	115	1583	NM_003011	Hs.145279	0	4	SET translocation (myeloid leukemia-associat
596D4	89	734	AA631938	Hs.145668	0	8	fmfc5 cDNA /clone=CR6-21 /gb=AA631938 /gi=25
492B3	512	2226	NM_004902	Hs.145696	0	2	splicing factor (CC1.3) (CC1.3), mRNA /cds=(14
192E4	1483	1837	AF246126	Hs.145956	0	1	zinc finger protein mRNA, complete cds /cds=(1
480B9	1094	1426	AL136874	Hs.146037	1.00E-111	1	mRNA; cDNA DKFZp434C135 (from clone DKFZp434C1
49H1	1761	2182	NM_022894	Hs.146123	0	1	hypothetical protein FLJ12972 (FLJ12972), mR
129C6	517	603	BE220959	Hs.146215	6.00E-21	1	hu02b06.x1 cDNA, 3' end /clone=IMAGE:3165395
583D9	249	646	NM_003641	Hs.146360	0	1	interferon induced transmembrane protein 1 (
589D9	125	1866	NM_002139	Hs.146381	0	5	RNA binding motif protein, X chromosome (RBMX)
68H11	122	1567	Z23064	Hs.146381	0	2	mRNA gene for hnRNP G protein /cds=(11,1186) /gb=
174A8	461	1008	NM_004757	Hs.146401	0	1	small inducible cytokine subfamily E, member 1
171A6	461	686	U10117	Hs.146401	1.00E-100	1	endothelial-monocyte activating polypeptide II mRN
465C4	53	342	AI141004	Hs.146627	3.00E-89	1	oy68f02.x1 cDNA, 3' end /clone=IMAGE:1671003
190H7	1306	3107	AB033079	Hs.146668	0	3	mRNA for KIAA1253 protein, partial cds /cds=(0
102E9	412	1022	AF054187	Hs.146763	0	3	alpha NAC mRNA, complete cds /cds=(309,956) /g
179B1	364	843	D16481	Hs.146812	0	1	mitochondrial 3-ketoacyl-CoA thiolas
126H12	1	358	NM_000183	Hs.146812	0	1	hydroxyacyl-Coenzyme A dehydrogenase/3-keto
476C9	20	249	AI187423	Hs.147040	1.00E-128	2	qf31d04.x1 cDNA, 3' end /clone=IMAGE:1751623
70H11	47	1593	AF272148	Hs.147644	0	7	KRAB zinc finger protein (RITA) mRNA, complete
51F1	635	1039	NM_018555	Hs.147644	0	3	C2H2-like zinc finger protein (ZNF361), mRNA
72H1	948	5026	AF000982	Hs.147916	0	7	dead box, X isoform (DBX) mRNA, alternative tra
37F10	3128	3652	X63563	Hs.148027	0	1	RNA polymerase II 140 kDa /cds=(43,3567)
64C11	163	279	AA908367	Hs.148288	6.00E-29	1	og76c11.s1 cDNA, 3' end /clone=IMAGE:1454228
463G2	52	473	AI335004	Hs.148558	0	1	tb21e09.x1 cDNA, 3' end /clone=IMAGE:2055016
471F8	17	463	AI471866	Hs.149095	0	1	ti67d04.x1 cDNA, 3' end /clone=IMAGE:2137063
169C12	449	1711	L06132	Hs.149155	0	2	voltage-dependent anion channel isoform 1 (VDAC) mRN
189G6	1353	1711	NM_003374	Hs.149155	0	5	voltage-dependent anion channel 1 (VDAC1), mR
481E3	501	669	NM_007022	Hs.149443	5.00E-84	1	putative tumor suppressor (101F6), mRNA /cds=
472B3	93	182	BF029894	Hs.149595	6.00E-44	1	601557056F1 cDNA, 5' end /clone=IMAGE:3827172
173D1	3719	3877	AB037901	Hs.149918	3.00E-83	1	GASC-1 mRNA, complete cds /cds=(150,3320) /gb
153G12	1429	1787	M31627	Hs.149923	0	2	X box binding protein-1 (XBP-1) mRNA, complete cds /cd
116B10	1435	1787	NM_005080	Hs.149923	1.00E-180	1	X-box binding protein 1 (XBP1), mRNA /cds=(12,7
111G4	480	1891	L12052	Hs.150395	0	2	cAMP phosphodiesterase PDE7 (PDE7A1) mRNA, co
461D6	1407	1904	NM_000790	Hs.150403	0	1	dopa decarboxylase (aromatic L-amino acid dec
73B3	896	1779	AL050005	Hs.150580	0	23	cDNA DKFZp564A153 (from clone DKFZp564A1
465G12	1	549	AJ272212	Hs.150601	0	1	mRNA for protein serine kinase (PSKH1 gene) /c
140G12	2	195	BF028489	Hs.150675	1.00E-100	1	601763692F1 cDNA, 5' end /clone=IMAGE:3995950
496E10	17	1686	BC000167	Hs.151001	0	5	clone IMAGE:2900671, mRNA, partial cds /cds=
597G7	623	1488	NM_005015	Hs.151134	0	2	oxidase (cytochrome c) assembly 1-like (OXA1L
50C9	1051	1467	X80695	Hs.151134	0	1	OXA1Hs mRNA /cds=(6,1313) /gb=X80695 /gi=519490
125H7	3154	3957	NM_001421	Hs.151139	0	3	E74-like factor 4 (ets domain transcription fa
111F2	306	638	BG286500	Hs.151239	1.00E-149	1	602382992F1 cDNA, 5' end /clone=IMAGE:4500527
177A4	9686	10035	AF075587	Hs.151411	0	1	protein associated with Myc mRNA, complete cds
185C7	6934	13968	NM_015057	Hs.151411	0	3	KIAA0916 protein (KIAA0916), mRNA /cds=(146,1
115E7	3406	4005	NM_004124	Hs.151413	0	1	glia maturation factor, beta (GMFB), mRNA /cds

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

182H7	234	833	AF099032	Hs.151461 0	1	embryonic ectoderm development protein short
169C10	4247	4727	U38847	Hs.151518 0	1	TAR RNA loop binding protein (TRP-185) mRNA, complete
167D6	1013	1197	NM_002870	Hs.151536 6.00E-83	1	RAB13, member RAS oncogene family (RAB13), mRN
588G11	1249	1898	AK023362	Hs.151604 1.00E-157	9	cDNA FLJ13300 fis, clone OVARC1001342, highly
479G10	1	277	NM_007210	Hs.151678 1.00E-103	1	UDP-N-acetyl-alpha-D-galactosamine:polype
178B7	2664	3033	NM_004247	Hs.151787 0	4	U5 snRNP-specific protein, 116 kD (U5-116KD),
59A6	382	860	D42054	Hs.151791 0	1	KIAA0092 gene, complete cds /cds=(53,1477) /
521B6	2017	2205	NM_014679	Hs.151791 2.00E-93	1	KIAA0092 gene product (KIAA0092), mRNA /cds=(
59C10	37	697	AF070525	Hs.151903 0	5	clone 24706 mRNA sequence /cds=UNKNOWN /gb=AF
519A7	165	686	NM_005792	Hs.152720 0	1	M-phase phosphoprotein 6 (MPHOSPH6), mRNA /c
481E11	3990	4280	NM_005154	Hs.152818 1.00E-135	1	ubiquitin specific protease 8 (USP8), mRNA /cd
110F2	1210	1841	L25931	Hs.152931 0	2	lamin B receptor (LBR) mRNA, complete cds /cds=(75,192
516F8	1217	1708	NM_002296	Hs.152931 0	1	lamin B receptor (LBR), mRNA /cds=(75,1922) /g
462B2	93	2385	AF244129	Hs.153042 0	2	cell-surface molecule Ly-9 mRNA, complete cds
41F4	617	905	X14046	Hs.153053 1.00E-162	1	leukocyte antigen CD37 /cds=(63,908) /gb=X14
482G8	2312	2843	AF311312	Hs.153057 0	1	Infertility-related sperm protein mRNA, comp
142H5	17	221	M94856	Hs.153179 1.00E-92	1	fatty acid binding protein homologue (PA-FABP) mRNA,
486G9	3	431	NM_001444	Hs.153179 0	1	fatty acid binding protein 5 (psoriasis-assoc
40A1	2158	2716	X79201	Hs.153221 0	1	SYT /cds=(3,1178) /gb=X79201 /gi=531105
101D9	1524	2060	AB014601	Hs.153293 0	1	for KIAA0701 protein, partial cds /cds=(0
460F10	1457	6107	AB032972	Hs.153489 0	2	mRNA for KIAA1146 protein, partial cds /cds=(0
106A5	445	547	AI761622	Hs.153523 2.00E-37	1	wg66f05.x1 cDNA, 3' end /clone=IMAGE:2370081
482A6	49	369	AI859076	Hs.153551 1.00E-106	1	wl33b04.x1 cDNA, 3' end /clone=IMAGE:2426671
589B2	1054	1556	AF261091	Hs.153612 0	1	iron inhibited ABC transporter 2 mRNA, complet
57A3	1586	1757	NM_004073	Hs.153640 9.00E-87	1	cytokine-inducible kinase (CNK), mRNA /cds=(3
466H3	2	257	NM_003866	Hs.153687 1.00E-133	1	inositol polyphosphate-4-phosphatase, type
483B6	3337	3544	NM_002526	Hs.153952 2.00E-72	1	5' nucleotidase (CD73) (NT5), mRNA /cds=(49,17
41F1	2749	3371	X55740	Hs.153952 0	1	placental cDNA coding for 5'nucleotidase (EC 3.1.3.5)
44C3	1319	1574	X82206	Hs.153961 1.00E-130	1	alpha-centractin /cds=(66,1198) /gb=X8
64F12	2578	2713	NM_022790	Hs.154057 1.00E-26	1	matrix metalloproteinase 19 (MMP19), transcri
72E11	1886	2717	U38320	Hs.154057 0	15	clone rasl-3 matrix metalloproteinase RASI-1
165H12	414	663	AW970676	Hs.154172 2.00E-22	1	EST382759 cDNA /gb=AW970676 /gi=8160521 /ug=
37A4	1151	2746	M31210	Hs.154210 0	2	endothelial differentiation protein (edg-1) gene mR
597F4	1125	2395	NM_001400	Hs.154210 0	11	endothelial differentiation, sphingolipid G
106F2	24	1657	U22897	Hs.154230 0	2	nuclear domain 10 protein (ndp52) mRNA, comple
466E2	116	373	AB023149	Hs.154296 1.00E-131	2	mRNA for KIAA0932 protein, partial cds /cds=(0
107F11	1386	1743	AL117566	Hs.154320 0	1	cDNA DKFZp566J164 (from clone DKFZp566J1
166E12	4490	4894	D86967	Hs.154332 0	1	KIAA0212 gene, complete cds /cds=(58,2031) /
188D12	5148	5666	NM_014674	Hs.154332 0	2	KIAA0212 gene product (KIAA0212), mRNA /cds=(
66A1	88	615	M82882	Hs.154365 0	1	cis-acting sequence /cds=UNKNOWN /gb=M82882 /gi=180
37C1	4320	4776	AB028999	Hs.154525 0	1	for KIAA1076 protein, partial cds /cds=(0
98D2	2317	4907	NM_000104	Hs.154654 0	6	cytochrome P450, subfamily I (dioxin-inducibl
37C4	4445	4907	U03688	Hs.154654 0	3	dioxin-inducible cytochrome P450 (CYP1B1) mRNA, comp
464A5	1418	2027	NM_006636	Hs.154672 0	3	methylene tetrahydrofolate dehydrogenase (N
36C5	615	1689	X16396	Hs.154672 0	7	NAD-dependent methylene tetrahydrofolate d
67C8	1	397	U85773	Hs.154695 0	1	phosphomannomutase (PMM2) mRNA, complete cds /cds=(
525D3	2084	2533	NM_002651	Hs.154846 0	1	phosphatidylinositol 4-kinase, catalytic, b
109A7	1979	3148	D10040	Hs.154890 0	2	for long-chain acyl-CoA synthetase, compl
167F6	1817	3359	NM_021122	Hs.154890 0	8	fatty-acid-Coenzyme A ligase, long-chain 2 (

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

182A1	344	793	NM_021825	Hs.154938	0	1	hypothetical protein MDS025 (MDS025), mRNA /
104E2	1254	1762	D87450	Hs.154978	0	1	KIAA0261 gene, partial cds /cds=(0,3865) /gb
519G10	4912	5303	NM_003489	Hs.155017	0	1	nuclear receptor interacting protein 1 (NRIP1
595C6	4067	4831	NM_006526	Hs.155040	0	2	zinc finger protein 217 (ZNF217), mRNA /cds=(2
105D4	1768	2418	L42373	Hs.155079	0	1	phosphatase 2A B56-alpha (PP2A) mRNA, complete
174B7	1768	2320	NM_006243	Hs.155079	0	1	protein phosphatase 2, regulatory subunit B (
75G4	920	1775	X59066	Hs.155101	0	2	mitochondrial ATP synthase (F1-ATPase) alpha
523G12	20	848	NM_004681	Hs.155103	0	3	eukaryotic translation initiation factor 1A,
74D7	292	1094	M16942	Hs.155122	0	3	MHC class II HLA-DRw53-associated glycoprotein
137D4	2500	2822	AL049761	Hs.155140	1.00E-176	1	beta- DNA sequence from clone RP5-863C7 on chromosome 20p12
471B5	908	1168	AK023379	Hs.155160	1.00E-141	1	cDNA FLJ13317 fis, clone OVARC1001577, highly
176C9	2104	2635	NM_003664	Hs.155172	0	1	adaptor-related protein complex 3, beta 1 sub
99F5	212	671	NM_005642	Hs.155188	0	1	TATA box binding protein (TBP)-associated fac
166E9	1215	1637	U18062	Hs.155188	0	1	TFIID subunit TAFII55 (TAFII55) mRNA, complete cds /c
163A11	60	3052	AL162086	Hs.155191	0	8	cDNA DKFZp762H157 (from clone DKFZp762H1
71E4	44	558	NM_003379	Hs.155191	1.00E-175	4	villin 2 (ezrin) (VIL2), mRNA /cds=(117,1877)
145D8	2135	2669	L47345	Hs.155202	0	1	elongin A mRNA, complete cds /cds=(32,2350) /g
477H9	357	2812	NM_014670	Hs.155291	0	2	KIAA0005 gene product (KIAA0005), mRNA /cds=(
58D8	38	336	NM_000518	Hs.155376	1.00E-100	1	hemoglobin, beta (HBB), mRNA /cds=(50,493) /g
48F11	576	2131	NM_006164	Hs.155396	0	2	nuclear factor (erythroid-derived 2)-like 2
65G11	426	1179	S74017	Hs.155396	0	1	Nrf2=NF-E2-like basic leucine zipper transcriptional act
480G12	852	1246	NM_001352	Hs.155402	0	1	D site of albumin promoter (albumin D-box) bind
182B12	245	592	NM_006899	Hs.155410	0	1	isocitrate dehydrogenase 3 (NAD+) beta (IDH3B
599C9	3188	3487	NM_021643	Hs.155418	1.00E-163	1	GS3955 protein (GS3955), mRNA /cds=(1225,2256
68H2	563	1749	AF037448	Hs.155489	0	2	RRM RNA binding protein Gry-rbp (GRY-RBP) mRNA
173F6	1243	1811	AF208043	Hs.155530	0	2	IFI16b (IFI16b) mRNA, complete cds /cds=(264,2
170B3	1061	1342	D50063	Hs.155543	1.00E-139	1	proteasome subunit p40_ / Mov34 protein, comp
590E9	494	1323	NM_002811	Hs.155543	0	2	proteasome (prosome, macropain) 26S subunit,
522D11	1463	1710	AB029003	Hs.155546	1.00E-138	2	mRNA for KIAA1080 protein, partial cds /cds=(0
587A8	3514	3923	NM_001746	Hs.155560	0	1	calnexin (CANX), mRNA /cds=(89,1867) /gb=NM_0
39A6	830	1474	D63878	Hs.155595	0	1	KIAA0158 gene, complete cds /cds=(258,1343)
167F5	745	2735	NM_004404	Hs.155595	0	3	neural precursor cell expressed, developmenta
106E10	1922	2340	U15173	Hs.155596	1.00E-179	2	BCL2/adenovirus E1B 19kD-interacting protein
524A8	1639	2229	NM_014666	Hs.155623	0	1	KIAA0171 gene product (KIAA0171), mRNA /cds=(
166D6	12177	12974	U47077	Hs.155637	0	3	DNA-dependent protein kinase catalytic subuni
488A10	1961	2426	NM_002827	Hs.155894	0	3	protein tyrosine phosphatase, non-receptor t
65D6	696	1107	S68271	Hs.155924	0	3	cyclic AMP-responsive element modulator (CRE
113E8	682	1435	NM_004054	Hs.155935	0	1	complement component 3a receptor 1 (C3AR1), mR
105F10	119	1591	U62027	Hs.155935	0	3	anaphylatoxin C3a receptor (HNFAG09) mRNA, complete
111C1	4122	4779	NM_005541	Hs.155939	0	5	Inositol polyphosphate-5-phosphatase, 145kD
40A9	1727	2300	D76444	Hs.155968	0	1	hkf-1 mRNA, complete cds /cds=(922,2979) /gb=
124F1	1464	2121	NM_005667	Hs.155968	0	1	zinc finger protein homologous to Zfp103 in mo
481E12	2237	2691	NM_003588	Hs.155976	0	1	cullin 4B (CUL4B), mRNA /cds=(78,2231) /gb=NM
109H3	36	440	NM_020414	Hs.155986	0	1	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide
193B10	1103	1892	AK024974	Hs.156110	1.00E-180	5	cDNA: FLJ21321 fis, clone COL02335, highly sim
463H6	26	149	AI337347	Hs.156339	5.00E-57	1	tb98e10.x1 cDNA, 3' end /clone=IMAGE:2062410
107H5	34	253	AI146787	Hs.156601	7.00E-93	1	qb83f02.x1 cDNA, 3' end /clone=IMAGE:1706715
517E8	209	822	NM_015646	Hs.156764	0	3	RAP1B, member of RAS oncogene family (RAP1B),
478H11	456	768	NM_005819	Hs.157144	1.00E-172	1	syntaxin 6 (STX6), mRNA /cds=(0,767) /gb=NM_0

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

463G12	44	283	AI351144	Hs.157213 3.00E-95	1	q123f10.x1 cDNA, 3' end /clone=IMAGE:1948459
520A2	2359	2565	BC001913	Hs.157236 1.00E-95	2	Similar to membrane protein of cholinergic sy
473A8	2944	3570	AK026394	Hs.157240 0	1	cDNA: FLJ22741 fis, clone HUV00774 /cds=UNKNOWN
464D5	433	601	AW207701	Hs.157315 8.00E-37	1	UI-H-BI2-age-e-03-0-UI.s1 cDNA, 3' end /clon
464B8	288	633	BF184881	Hs.157396 2.00E-99	1	601843756F1 cDNA, 5' end /clone=IMAGE:4064508
463A6	225	554	AW976630	Hs.157447 1.00E-169	1	EST388739 cDNA /gb=AW976630 /gi=8167861 /ug=
464G10	423	661	AI356405	Hs.157556 1.00E-103	1	qz26g04.x1 cDNA, 3' end /clone=IMAGE:2028054
464H3	396	642	AI568755	Hs.157564 1.00E-123	1	th15f03.x1 cDNA, 3' end /clone=IMAGE:2118365
466C1	110	384	AI760026	Hs.157569 1.00E-135	1	wh83c05.x1 cDNA, 3' end /clone=IMAGE:2387336
465A2	11	178	AI823541	Hs.157710 1.00E-79	1	wh55c11.x1 cDNA, 3' end /clone=IMAGE:2384660
464A8	2000	2248	AK023779	Hs.157777 1.00E-134	1	cDNA FLJ13717 fis, clone PLACE2000425 /cds=UNK
464G1	122	447	AI361761	Hs.157813 1.00E-163	2	qz19a07.x1 cDNA, 3' end /clone=IMAGE:2021940
464G7	293	395	AI361849	Hs.157815 4.00E-30	1	qz19h11.x1 cDNA, 3' end /clone=IMAGE:2022021
145B8	238	598	BF303931	Hs.157850 1.00E-179	3	601866564F2 cDNA, 5' end /clone=IMAGE:4120574
115D1	111	712	NM_000661	Hs.157850 1.00E-159	2	ribosomal protein L9 (RPL9), mRNA /cds=(29,607
102F8	4161	4818	AB023198	Hs.158135 0	1	for KIAA0981 protein, partial cds /cds=(0
597H12	1253	2625	NM_000593	Hs.158164 0	5	ATP-binding cassette, sub-family B (MDR/TAP),
465A3	172	342	T78173	Hs.158193 5.00E-64	1	yd79c05.r1 cDNA, 5' end /clone=IMAGE:114440 /
465H8	740	1171	NM_006354	Hs.158196 1.00E-149	1	transcriptional adaptor 3 (ADA3, yeast homolog
59H12	1646	6883	NM_002313	Hs.158203 0	4	actin-binding LIM protein (ABLIM), transcript
464A2	32	549	NM_004571	Hs.158225 0	1	PBX/knotted 1 homeobox 1 (PKNOX1), mRNA /cds=(
124F12	6603	6907	AB007915	Hs.158286 1.00E-172	1	mRNA for KIAA0446 protein, partial cds /cds=(3
519F5	80	268	AI199223	Hs.158289 1.00E-86	1	ql47c06.x1 cDNA, 3' end /clone=IMAGE:1859626
463F8	33	286	BF433857	Hs.158501 1.00E-123	1	7q71b07.x1 cDNA /clone=IMAGE /gb=BF433857 /g
137A8	204	452	AI370965	Hs.158653 5.00E-32	1	ta29b11.x1 cDNA, 3' end /clone=IMAGE:2045469
466A11	1	565	BE676408	Hs.158714 0	1	7f29b11.x1 cDNA, 3' end /clone=IMAGE:3296061
73C2	5	396	AW362008	Hs.158794 0	1	PM2-CT0265-211099-002-d04 /gb=AW362008
465C6	242	433	AI378113	Hs.158877 2.00E-95	1	tc80c12.x1 cDNA, 3' end /clone=IMAGE:2072470
465C2	29	153	AI378457	Hs.158894 4.00E-60	2	tc79d10.x1 cDNA, 3' end /clone=IMAGE:2072371
465C10	47	442	AI379953	Hs.158943 0	1	tc81a07.x1 cDNA, 3' end /clone=IMAGE:2072532
477B9	151	396	AI380220	Hs.158965 1.00E-109	2	tf94a04.x1 cDNA, 3' end /clone=IMAGE:2106894
477B10	1	414	AI380236	Hs.158966 0	2	tf94b10.x1 cDNA, 3' end /clone=IMAGE:2106907
466F8	128	233	AI380388	Hs.158975 4.00E-30	1	tf96a03.x1 cDNA, 3' end /clone=IMAGE:2107084
467E12	109	350	AI799909	Hs.158989 1.00E-82	1	wc46c08.x1 cDNA, 3' end /clone=IMAGE:2321678
469G6	169	470	AI631850	Hs.158992 1.00E-119	1	wa36h07.x1 cDNA, 3' end /clone=IMAGE:2300221
467H4	17	292	BF508694	Hs.158999 1.00E-117	1	UI-H-BI4-aop-f-09-0-UI.s1 cDNA, 3' end /clon
469B2	179	388	AI568751	Hs.159014 4.00E-94	1	th15d09.x1 cDNA, 3' end /clone=IMAGE:2118353
464E8	742	945	AL538276	Hs.159065 1.00E-110	1	AL538276 cDNA /clone=CS0DF027YC09-(5-prime)
469D9	1	413	AI431873	Hs.159103 0	1	ti26b11.x1 cDNA, 3' end /clone=IMAGE:2131581
122C7	1916	2375	NM_003266	Hs.159239 0	1	tol-like receptor 4 (TLR4), mRNA /cds=(284,26
462H4	79	239	BF307871	Hs.159336 7.00E-66	1	601890687F1 cDNA, 5' end /clone=IMAGE:4132028
179C1	428	734	AJ225093	Hs.159386 3.00E-88	1	single-chain antibody, complete cds
473D11	267	339	AI380255	Hs.159424 5.00E-34	1	tf94d08.x1 cDNA, 3' end /clone=IMAGE:2106927
107B2	1	617	BE783628	Hs.159441 1.00E-160	2	601471696F1 cDNA, 5' end /clone=IMAGE:3874823
590E12	52	654	BG290141	Hs.159441 0	6	602385221F1 cDNA, 5' end /clone=IMAGE:4514380
70E1	2095	2333	AK027194	Hs.159483 1.00E-119	1	FLJ23541 fis, clone LNG08276, highly sim
58A5	10448	12675	AF193556	Hs.159492 0	10	sacsin (SACS) gene, complete cds /cds=(76,1156
482E11	2064	2559	NM_000061	Hs.159494 0	1	Bruton agammaglobulinemia tyrosine kinase (B
147A11	755	2415	AF001622	Hs.159523 0	7	class-I MHC-restricted T cell associated mole
486H6	1164	1382	NM_019604	Hs.159523 1.00E-117	2	class-I MHC-restricted T cell associated mole
465A5	2693	3039	NM_000033	Hs.159546 1.00E-148	1	ATP-binding cassette, sub-family D (ALD), mem

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

60C4	1102	1962	AK024833	Hs.159557	1.00E-147	4	FLJ21180 fis, clone CAS11176, highly sim
465B11	457	1126	NM_016952	Hs.159565	0	1	surface glycoprotein, Ig superfamily member (
477A12	89	581	AI797788	Hs.159577	0	5	wh78b11.x1 cDNA, 3' end /clone=IMAGE:2386845
595H8	19	912	NM_004632	Hs.159627	0	2	death associated protein 3 (DAP3), mRNA /cds=(
74D2	7	2119	AF153609	Hs.159640	0	9	serine/threonine protein kinase sgk mRNA, com
71B2	8	533	NM_005627	Hs.159640	0	1	serum/glucocorticoid regulated kinase (SGK)
467G8	310	488	AW006352	Hs.159643	2.00E-92	1	wt04d12.x1 cDNA, 3' end /clone=IMAGE:2506487
467B8	11	363	AI392893	Hs.159655	1.00E-173	1	tg05d07.x1 cDNA, 3' end /clone=IMAGE:2107885
471F11	16	303	AI827950	Hs.159659	1.00E-162	1	wk31a11.x1 cDNA, 3' end /clone=IMAGE:2413916
467C11	18	501	BF508053	Hs.159673	0	1	UI-H-BI4-apx-b-11-0-UI.s1 cDNA, 3' end /clon
477F4	3	405	AI394671	Hs.159678	0	2	tg24a07.x1 cDNA, 3' end /clone=IMAGE:2109684
472F5	194	366	NM_018490	Hs.160271	1.00E-93	1	G protein-coupled receptor 48 (GPR48), mRNA /
468B11	72	481	AI393041	Hs.160273	0	1	tg25b10.x1 cDNA, 3' end /clone=IMAGE:2109787
477D3	5	484	AI393906	Hs.160401	0	2	tg05f08.x1 cDNA, 3' end /clone=IMAGE:2107911
477D12	11	389	AI393962	Hs.160405	1.00E-178	1	tg11d08.x1 cDNA, 3' end /clone=IMAGE:2108463
477D5	15	262	AI393992	Hs.160408	1.00E-138	1	tg06c05.x1 cDNA, 3' end /clone=IMAGE:2107976
65A9	4106	5547	AF137030	Hs.160417	0	5	transmembrane protein 2 (TMEM2) mRNA, complete
513A2	4109	5547	NM_013390	Hs.160417	0	5	transmembrane protein 2 (TMEM2), mRNA /cds=(14
463F12	688	1425	AF218032	Hs.160422	0	1	clone PP902 unknown mRNA /cds=(693,1706) /gb=
165C1	2625	2987	X85116	Hs.160483	0	1	H.sapiens epb72 gene exon 1 /cds=(61,927) /gb=X85116 /gi=1
469G4	145	550	AI634652	Hs.160795	0	1	wa07e10.x1 cDNA, 3' end /clone=IMAGE:2297418
472C7	343	565	AI760020	Hs.160951	1.00E-105	1	wh83b05.x1 cDNA, 3' end /clone=IMAGE:2387313
466F12	485	682	BF207290	Hs.160954	2.00E-62	1	601870777F1 cDNA, 5' end /clone=IMAGE:4100850
477C10	5	290	BF437585	Hs.160980	1.00E-149	1	7p74d12.x1 cDNA, 3' end /clone=IMAGE:3551526
61E8	4435	6593	U83115	Hs.161002	0	3	non-lens beta gamma-crystallin like protein (AIM1) m
458E5	1	462	R84314	Hs.161043	1.00E-159	1	yq23a02.r1 cDNA, 5' end /clone=IMAGE:274443 /
466E12	117	447	BF001821	Hs.161075	0	1	7g93g02.x1 cDNA, 3' end /clone=IMAGE:3314066
102H4	7	219	AW963155	Hs.161786	1.00E-111	1	EST375228 /gb=AW963155 /gi=8152991 /ug=
118B6	2050	2260	NM_022570	Hs.161786	2.00E-75	1	C-type (calcium dependent, carbohydrate-reco
593C4	3863	4092	U86453	Hs.162808	9.00E-92	1	phosphatidylinositol 3-kinase catalytic subunit p1
467B7	129	455	AI023714	Hs.163442	1.00E-164	1	ow91h05.x1 cDNA, 3' end /clone=IMAGE:1654233
107G8	592	1016	AK023670	Hs.163495	0	1	FLJ13608 fis, clone PLACE1010628 /cds=UNK
74F3	229	448	AA627122	Hs.163787	4.00E-77	1	nq70g02.s1 cDNA, 3' end /clone=IMAGE:1157714
68B3	1094	1771	AK023494	Hs.164005	0	5	FLJ13432 fis, clone PLACE1002537 /cds=UNK
469H10	420	850	NM_002993	Hs.164021	0	1	small inducible cytokine subfamily B (Cys-X-C
464E9	86	424	AA811244	Hs.164168	1.00E-166	1	ob58h11.s1 cDNA, 3' end /clone=IMAGE:1335621
467E11	788	1330	NM_007053	Hs.164170	0	1	vascular Rab-GAP/TBC-containing (VRP), mRNA
597C5	59	1251	AY007135	Hs.164280	1.00E-126	3	clone CDABP0051 mRNA sequence /cds=(89,985) /
464H11	2	202	BF689700	Hs.164675	9.00E-65	1	602186609F1 cDNA, 5' end /clone=IMAGE:4298402
459D5	6	496	AI248204	Hs.165051	0	1	qh64h11.x1 cDNA, 3' end /clone=IMAGE:1849509
120F12	23	502	NM_001017	Hs.165590	1.00E-159	5	ribosomal protein S13 (RPS13), mRNA /cds=(32,4
469C11	301	613	AW364833	Hs.165681	1.00E-136	1	QV3-DT0043-211299-044-d03 cDNA /gb=AW364833
465D3	289	481	AI766638	Hs.165693	2.00E-62	1	wi02a10.x1 cDNA, 3' end /clone=IMAGE:2389050
465D6	107	238	AW850041	Hs.165695	3.00E-61	1	IL3-CT0216-170300-097-C07 cDNA /gb=AW850041
466C7	166	421	AI538546	Hs.165696	1.00E-122	1	td08b07.x1 cDNA, 3' end /clone=IMAGE:2075029
469C4	351	691	AI436561	Hs.165703	1.00E-148	1	ti03b03.x1 cDNA, 3' end /clone=IMAGE:2129357
62A12	32	256	AV727063	Hs.165980	1.00E-120	4	AV727063 cDNA, 5' end /clone=HTCCED11 /clone_
107C2	2427	2613	AJ250865	Hs.165986	1.00E-82	1	for TESS 2 protein (TESS /cds=(128,1393) /
461D5	1762	1935	NM_004031	Hs.166120	8.00E-81	1	interferon regulatory factor 7 (IRF7), transc

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

147D11	38	1283	AL022097	Hs.166203 0	5	DNA sequence from PAC 256G22 on chromosome 6p24
595H12	1321	1597	NM_002636	Hs.166204 1.00E-135	2	PHD finger protein 1 (PHF1), mRNA /cds=(56,1429
58H7	41	2036	AL136711	Hs.166254 0	2	mRNA; cDNA DKFZp5661133 (from clone DKFZp56611
98D12	5559	6110	NM_014646	Hs.166318 0	1	lipin 2 (LPIN2), mRNA /cds=(239,2929) /gb=NM_0
468G1	146	509	AW873324	Hs.166338 1.00E-168	2	hl92a07.x1 cDNA, 3' end /clone=IMAGE:3009396
477D7	2900	3748	L14922	Hs.166563 0	1	DNA-binding protein (PO-GA) mRNA, complete cd
177E7	3265	3595	L23320	Hs.166563 0	1	replication factor C large subunit mRNA, complete cds
584H2	206	1613	NM_006925	Hs.166975 1.00E-112	5	splicing factor, arginine/serine-rich 5 (SFR
481F5	647	917	NM_002643	Hs.166982 1.00E-128	1	phosphatidylinositol glycan, class F (PIGF),
598E4	112	538	NM_002788	Hs.167106 1.00E-174	1	proteasome (prosome, macropain) subunit, alp
468D8	46	470	AI805131	Hs.167206 0	1	td11f04.x1 cDNA, 3' end /clone=IMAGE:2075359
464C8	342	469	BE674762	Hs.167208 4.00E-50	1	7e98d05.x1 cDNA, 3' end /clone=IMAGE:3293193
468A6	1177	1417	NM_003658	Hs.167218 4.00E-85	1	BarH-like homeobox 2 (BARX2), mRNA /cds=(96,93
74H10	1	1271	AF107405	Hs.167460 0	12	pre-mRNA splicing factor (SFRS3) mRNA, comple
60E9	3154	3926	U43185	Hs.167503 1.00E-143	2	signal transducer and activator of transcription Sta
517G3	1129	2787	NM_006994	Hs.167741 0	3	butyrophilin, subfamily 3, member A3 (BTN3A3),
175H2	2261	2467	U90548	Hs.167741 2.00E-86	1	butyrophilin (BTF3) mRNA, complete cds /cds=(171,192
588H5	1324	1735	NM_002901	Hs.167791 0	1	reticulocalbin 1, EF-hand calcium binding dom
331D7	53	625	AF116909	Hs.167827 4.00E-22	1	clone HH419 unknown mRNA /cds=(189,593) /gb=A
39C11	938	1672	AF026402	Hs.168103 0	1	U5 snRNP 100 kD protein mRNA, cds /cds=(39,2501
583C8	906	1669	NM_004818	Hs.168103 0	5	prp28, U5 snRNP 100 kd protein (U5-100K), mRNA
43B1	1156	1224	AF031167	Hs.168132 1.00E-22	1	interleukin 15 precursor (IL-15) mRNA, complet
479A7	424	801	NM_000585	Hs.168132 1.00E-149	1	interleukin 15 (IL15), mRNA /cds=(316,804) /g
67D6	1783	2336	AK024030	Hs.168232 0	1	FLJ13968 fis, clone Y79AA1001493, weakly
122H3	1646	2894	NM_023079	Hs.168232 0	2	hypothetical protein FLJ13855 (FLJ13855), mR
459H3	9	504	AI392830	Hs.168287 0	1	tg10b09.x1 cDNA, 3' end /clone=IMAGE:2108345
463G5	103	851	NM_003002	Hs.168289 0	1	succinate dehydrogenase complex, subunit D,
144G9	5588	5937	AL049935	Hs.168350 0	2	DKFZp564O1116 (from clone DKFZp564O
459A9	2293	2727	NM_000201	Hs.168383 0	2	intercellular adhesion molecule 1 (CD54), hum
123G3	2194	2675	AB046801	Hs.168640 0	2	mRNA for KIAA1581 protein, partial cds /cds=(0
112H10	505	864	AF007155	Hs.168694 1.00E-175	2	clone 23763 unknown mRNA, partial cds /cds=(0,
60H7	223	897	AF083420	Hs.168913 0	1	brain-specific STE20-like protein kinase 3 (
105C12	1698	2052	AK026671	Hs.169078 1.00E-176	1	FLJ23018 fis, clone LNG00903 /cds=(27,14
181B9	1148	1610	NM_003937	Hs.169139 0	1	kynureninase (L-kynurenine hydrolase) (KYNU)
462B7	13	478	AA977148	Hs.169168 0	1	oq24g08.s1 cDNA, 3' end /clone=IMAGE:1587326
41H5	197	624	U58913	Hs.169191 0	1	chemokine (hmrp-2a) mRNA, complete cds /cds=(71,484)
69G6	11	552	BF214508	Hs.169248 1.00E-160	4	601845758F1 cDNA, 5' end /clone=IMAGE:4076510
460B2	904	2904	NM_003202	Hs.169294 1.00E-161	2	transcription factor 7 (T-cell specific, HMG-
464G12	543	994	D26121	Hs.169303 0	1	mRNA for ZFM1 protein alternatively spliced product,
464B5	163	762	NM_013259	Hs.169330 0	1	neuronal protein (NP25), mRNA /cds=(49,897) /
593G4	787	1353	Z97989	Hs.169370 0	2	DNA sequence from PAC 66H14 on chromosome 6q21-22. Con
165F12	1177	1751	AK001725	Hs.169407 0	1	cDNA FLJ10863 fis, clone NT2RP4001575, highly
483B12	10871	11349	NM_004010	Hs.169470 0	1	dystrophin (muscular dystrophy, Duchenne and
518B3	22	1257	NM_002046	Hs.169476 0	5	glyceraldehyde-3-phosphate dehydrogenase (
67E7	1289	1597	U34995	Hs.169476 3.00E-88	1	normal keratinocyte subtraction library mRNA, clon
47E9	2148	2452	NM_005461	Hs.169487 1.00E-172	1	Kreisler (mouse) maf-related leucine zipper h
69C3	846	3195	U41387	Hs.169531 0	24	Gu protein mRNA, partial cds /cds=(0,2405) /gb=U41387

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

468G7	73	450	AI523598	Hs.169541	1.00E-178	1	th08g11.x1 cDNA, 3' end /clone=IMAGE:2117732
72E12	490	3074	AJ251595	Hs.169610	0	29	for transmembrane glycoprotein (CD44 gen
471F2	97	533	AW172306	Hs.169738	0	1	xj37a08.x1 cDNA, 3' end /clone=IMAGE:2659382
589D4	96	488	NM_000994	Hs.169793	1.00E-163	2	ribosomal protein L32 (RPL32), mRNA /cds=(34,4
105B6	1590	2215	AK027212	Hs.169854	0	1	FLJ23559 fis, clone LNG09844 /cds=UNKNOWN
462A8	1043	1529	NM_000305	Hs.169857	0	1	paraoxonase 2 (PON2), mRNA /cds=(32,1096) /gb
175D11	390	929	AF061736	Hs.169895	1.00E-132	2	ubiquitin-conjugating enzyme RIG-B mRNA, com
149A2	2442	2942	U75686	Hs.169900	0	1	polyadenylate binding protein mRNA, complete
524B9	2484	2709	NM_007049	Hs.169963	1.00E-125	2	butyrophilin, subfamily 2, member A1 (BTN2A1),
169G8	1192	1684	U90543	Hs.169963	0	1	butyrophilin (BTF1) mRNA, complete cds /cds=(210,179
129E9	686	1227	X70340	Hs.170009	0	1	transforming growth factor alpha /cds=(3
589C1	1893	3451	NM_004350	Hs.170019	0	5	runt-related transcription factor 3 (RUNX3),
331E1	5084	5496	NM_001621	Hs.170087	0	1	aryl hydrocarbon receptor (AHR) mRNA /cds=(643
595H7	659	4185	NM_002838	Hs.170121	0	34	protein tyrosine phosphatase, receptor type,
184G8	1083	3762	Y00062	Hs.170121	0	10	T200 leukocyte common antigen (CD45, LC-A) /c
109D4	4529	4876	AF032885	Hs.170133	0	1	forkhead protein (FKHR) mRNA, complete cds /cd
98A12	4529	4882	NM_002015	Hs.170133	1.00E-160	1	forkhead box O1A (rhabdomyosarcoma) (FOXO1A),
99E3	2098	2334	NM_004761	Hs.170160	1.00E-125	1	RAB2, member RAS oncogene family-like (RAB2L),
498F10	3472	4909	AL161952	Hs.170171	0	28	mRNA; cDNA DKFZp434M0813 (from clone DKFZp434M
465G7	390	462	AI475666	Hs.170288	2.00E-31	1	tc93c08.x1 cDNA, 3' end /clone=IMAGE:2073710
467E6	68	482	AK025743	Hs.170296	0	1	cDNA: FLJ22090 fis, clone HEP16084 /cds=UNKNOWN
459H9	4659	5168	NM_014636	Hs.170307	0	1	Ral guanine nucleotide exchange factor RalGPS
38D9	618	992	D89678	Hs.170311	0	25	for A+U-rich element RNA binding factor,
589F11	1033	2022	NM_005463	Hs.170311	0	13	heterogeneous nuclear ribonucleoprotein D-I.
469B9	127	573	AI436418	Hs.170326	0	1	tl01h02.x1 cDNA, 3' end /clone=IMAGE:2129235
183E4	2725	3777	NM_002444	Hs.170328	0	7	moesin (MSN), mRNA /cds=(100,1833) /gb=NM_002
170G2	1693	3305	Z98946	Hs.170328	0	4	DNA sequence from clone 376D21 on chromosome Xq11.1-12
464F6	162	534	AI492865	Hs.170331	1.00E-163	1	th78a05.x1 cDNA, 3' end /clone=IMAGE:2124752
472F8	412	554	AI373163	Hs.170333	1.00E-75	1	qz13a07.x1 cDNA, 3' end /clone=IMAGE:2021364
473C3	376	610	AW291507	Hs.170381	1.00E-123	1	UI-H-BI2-aga-g-11-0-UI.s1 cDNA, 3' end /clon
465E5	421	547	BE676049	Hs.170584	3.00E-54	1	7f21a03.x1 cDNA, 3' end /clone=IMAGE:3295276
477A3	25	202	AI475884	Hs.170587	4.00E-92	2	tc95c12.x1 cDNA, 3' end /clone=IMAGE:2073910
477A4	34	489	AI475905	Hs.170588	0	1	tc95f06.x1 cDNA, 3' end /clone=IMAGE:2073923
469F2	238	490	AI478556	Hs.170777	2.00E-84	1	tm53e03.x1 cDNA, 3' end /clone=IMAGE:2161852
472C5	357	474	AI479022	Hs.170784	1.00E-53	1	tm30a05.x1 cDNA, 3' end /clone=IMAGE:2158064
477D6	23	407	AI492034	Hs.170909	0	2	tg06f12.x1 cDNA, 3' end /clone=IMAGE:2108015
471D4	187	416	AI492181	Hs.170913	1.00E-106	1	tg07e06.x1 cDNA, 3' end /clone=IMAGE:2108098
464F8	14	142	AI492651	Hs.170934	7.00E-53	1	qz18b10.x1 cDNA, 3' end /clone=IMAGE:2021851
466D3	173	461	AI540204	Hs.170935	1.00E-131	1	td10h12.x1 cDNA, 3' end /clone=IMAGE:2075303
478F10	314	461	AI761144	Hs.171004	4.00E-45	1	wh97h01.x1 cDNA, 3' end /clone=IMAGE:2388721
476E2	187	253	AI494612	Hs.171009	2.00E-30	2	qz17a03.x1 cDNA, 3' end /clone=IMAGE:2021740
107G12	2413	2929	AK024436	Hs.171118	0	1	for FLJ00026 protein, partial cds /cds=(0
478H3	1237	1509	AL161725	Hs.171118	1.00E-107	1	DNA sequence from clone RP11-165F24 on chromosome 9.
477H10	252	489	BE674709	Hs.171120	3.00E-87	1	7e94f05.x1 cDNA, 3' end /clone=IMAGE:3292833
477H11	18	521	AI524202	Hs.171122	0	1	th10d11.x1 cDNA, 3' end /clone=IMAGE:2117877
466C10	24	216	BE816212	Hs.171261	8.00E-81	1	MR1-BN0212-280600-001-c06 cDNA /gb=BE816212
470A4	22	562	AI628893	Hs.171262	0	1	ty95h02.x1 cDNA, 3' end /clone=IMAGE:2286867
477C4	216	464	AI540161	Hs.171264	1.00E-112	2	td10c10.x1 cDNA, 3' end /clone=IMAGE:2075250
519E12	1	321	NM_016468	Hs.171566	1.00E-167	2	hypothetical protein (LOC51241), mRNA /cds=(
44C11	5363	5829	AF012872	Hs.171625	0	1	phosphatidylinositol 4-kinase 230 (p4K230)
517D4	19	559	NM_003197	Hs.171626	0	3	transcription elongation factor B (SIII), pol

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

48E9	1563	1809	NM_004417	Hs.171695	1.00E-138	2	dual specificity phosphatase 1 (DUSP1), mRNA
520H5	941	3667	NM_002719	Hs.171734	0	2	protein phosphatase 2, regulatory subunit B (
106G2	1	308	BF243010	Hs.171774	1.00E-167	2	601877795F1 cDNA, 5' end /clone=IMAGE:4106303
524A7	14	359	NM_015933	Hs.171774	0	14	hypothetical protein (HSPC016), mRNA /cds=(3
117A11	311	614	BF966361	Hs.171802	1.00E-143	2	602286929F1 cDNA, 5' end /clone=IMAGE:4375783
38H11	885	2087	M55543	Hs.171862	0	6	guanylate binding protein isoform II (GBP-2) mRNA, co
512F8	232	1971	NM_004120	Hs.171862	0	12	guanylate binding protein 2, interferon-induc
111B9	3748	4161	NM_004941	Hs.171872	0	1	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide
192H11	5738	5903	NM_000937	Hs.171880	2.00E-68	1	polymerase (RNA) II (DNA directed) polypeptide
176F11	1322	4789	AL109935	Hs.171917	0	3	DNA sequence from clone RP5-1022P6 on chromosome 20 C
596G12	2472	3152	NM_001110	Hs.172028	0	5	a disintegrin and metalloproteinase domain 10
170A5	2438	2767	AK023154	Hs.172035	0	1	FLJ13092 fis, clone NT2RP3002147 /cds=(34
469D11	71	535	AI474074	Hs.172070	0	1	ti68h11.x1 cDNA, 3' end /clone=IMAGE:2137221
100G4	5574	5662	U02882	Hs.172081	3.00E-24	1	rolipram-sensitive 3',5'-cyclic AMP phosphodiester
524A11	1	2517	AL110202	Hs.172089	0	20	mRNA; cDNA DKFZp586I2022 (from clone DKFZp586
49A2	929	2845	NM_002568	Hs.172182	0	30	poly(A)-binding protein, cytoplasmic 1 (PABP
54C5	929	2484	Y00345	Hs.172182	0	9	polyA binding protein /cds=(502,2403) /gb=Y0
586B1	1042	1504	NM_002408	Hs.172195	0	1	mannosyl (alpha-1,6-)-glycoprotein beta-1,2
169H6	5576	5958	D25538	Hs.172199	0	1	KIAA0037 gene, complete cds /cds=(265,3507)
115G7	4531	4976	NM_001114	Hs.172199	0	1	adenylate cyclase 7 (ADCY7), mRNA /cds=(265,35
120F2	1	2496	NM_007363	Hs.172207	0	11	non-POU-domain-containing, octamer-binding
74A3	860	1364	Y11289	Hs.172207	0	1	p54nrb gene, exon 3 (and joined /cds=(136,1551)
60B7	695	1160	NM_000202	Hs.172458	0	1	iduronate 2-sulfatase (Hunter syndrome) (IDS
479D10	4059	4347	NM_000632	Hs.172631	1.00E-125	1	integrin, alpha M (complement component recep
167B10	1	389	NM_003761	Hs.172684	0	4	vesicle-associated membrane protein 8 (endob
189E11	1773	2038	NM_001345	Hs.172690	1.00E-149	2	diacylglycerol kinase, alpha (80kD) (DGKA), m
177C2	983	1489	X62535	Hs.172690	0	1	diacylglycerol kinase /cds=(103,2310)
458B12	535	1002	NM_012326	Hs.172740	0	1	microtubule-associated protein, RP/EB family
53A11	69	430	W26908	Hs.172762	1.00E-180	1	16b3 /gb=W26908 /gi=1306136 /ug=Hs.17276
151H2	2016	2572	M80359	Hs.172766	0	1	protein p78 mRNA, complete cds /cds=(171,2312) /gb=M8
100G10	3983	4302	AB037808	Hs.172789	1.00E-149	1	for KIAA1387 protein, partial cds /cds=(0
515D9	354	548	NM_004182	Hs.172791	3.00E-65	1	ubiquitously-expressed transcript (UXT), mR
193D9	2282	2757	AL109669	Hs.172803	0	3	mRNA full length insert cDNA clone EUROIMAGE 31
460H10	12	490	NM_016466	Hs.172918	0	1	hypothetical protein (LOC51239), mRNA /cds=(
483D3	3473	3941	AB011102	Hs.173081	0	1	mRNA for KIAA0530 protein, partial cds /cds=(0,
195B9	380	854	NM_005729	Hs.173125	0	2	peptidylprolyl isomerase F (cyclophilin F) (
173H6	6008	6412	NM_006283	Hs.173159	0	1	transforming, acidic coiled-coil containing
113E6	142	240	AI554733	Hs.173182	3.00E-49	1	tn27f08.x1 cDNA, 3' end /clone=IMAGE:2168871
56G8	140	630	AK002009	Hs.173203	0	2	FLJ11147 fis, clone PLACE1006678, weakly
69E6	1	463	BF131656	Hs.173205	1.00E-147	8	601820483F1 cDNA, 5' end /clone=IMAGE:4052348
44A2	6	196	X06347	Hs.173255	1.00E-94	1	U1 small nuclear RNP-specific A protein /cds=
149G1	79	498	AY007165	Hs.173274	1.00E-117	2	clone CDABP0163 mRNA sequence /cds=UNKNOWN /g
464F3	53	500	AW005376	Hs.173280	0	1	ws94a12.x1 cDNA, 3' end /clone=IMAGE:2505598
587H5	3299	4083	NM_014633	Hs.173288	0	2	KIAA0155 gene product (KIAA0155), mRNA /cds=(
499B9	1032	1923	NM_012081	Hs.173334	0	2	ELL-RELATED RNA POLYMERASE II, ELONGATION FAC
54F11	368	1923	U88629	Hs.173334	0	2	RNA polymerase II elongation factor ELL2, complete cd
459A4	2170	2775	AK001362	Hs.173374	0	1	cDNA FLJ10500 fis, clone NT2RP2000369 /cds=UNK



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

124B1	2566	3019	AB046825	Hs.173422 0	1	mRNA for KIAA1605 protein, partial cds /cds=(3
126H6	1080	1626	NM_006363	Hs.173497 0	1	Sec23 (S. cerevisiae) homolog B (SEC23B), mRNA
596D5	1233	1365	NM_004550	Hs.173611 8.00E-63	5	NADH dehydrogenase (ubiquinone) Fe-S protein
108C5	1709	1864	AK022681	Hs.173685 2.00E-83	1	FLJ12619 fis, clone NT2RM4001682 /cds=(39
583D12	3	1960	AK025703	Hs.173705 0	4	cDNA: FLJ22050 fis, clone HEP09454 /cds=UNKNOWN
70B6	579	1140	AL049610	Hs.173714 0	2	DNA sequence from clone 1055C14 on chromosome Xq22.1-
46D7	590	1150	NM_012286	Hs.173714 0	1	MORF-related gene X (KIAA0026), mRNA /cds=(305
467G5	17	283	AA534537	Hs.173720 1.00E-104	1	nf80h10.s1 cDNA, 3' end /clone=IMAGE:926275 /
168H5	1	1066	D25274	Hs.173737 0	5	mRNA, clone:PO2ST9 /cds=UNKNOWN /gb=D25274 /
471B8	5347	5922	NM_014832	Hs.173802 0	1	KIAA0603 gene product (KIAA0603), mRNA /cds=(
177F4	1053	1622	U51166	Hs.173824 0	1	G/T mismatch-specific thymine DNA glycosylase mRNA,
471C3	396	719	AF277292	Hs.173840 1.00E-176	1	C4orf1 mRNA /cds=(0,281) /gb=AF277292 /gi=96
477F7	2053	2694	U80735	Hs.173854 0	3	CAGF28 mRNA, partial cds /cds=(0,2235) /gb=U80
41F3	3595	3890	M37435	Hs.173894 1.00E-143	1	macrophage-specific colony-stimulating factor (CSF
460C8	1542	1939	NM_014225	Hs.173902 0	1	protein phosphatase 2 (formerly 2A), regulator
458A9	292	414	AI763121	Hs.173904 4.00E-57	1	wi06d12.x1 cDNA, 3' end /clone=IMAGE:2389463
170B10	1230	3510	AL137681	Hs.173912 1.00E-176	5	cDNA DKFZp434M0326 (from clone DKFZp434M
126E10	1061	1795	Z17227	Hs.173936 1.00E-111	2	mRNA for transmembrane receptor protein /cds=(4
72H7	1210	1907	U08316	Hs.173965 0	2	insulin-stimulated protein kinase 1 (ISPK-1) mRNA, c
123G7	554	858	NM_005777	Hs.173993 1.00E-168	1	RNA binding motif protein 6 (RBM6), mRNA /cds=(
469C8	261	528	BE674902	Hs.174010 1.00E-113	1	7e97a04.x1 cDNA, 3' end /clone=IMAGE:3293070
117G6	2450	2657	NM_003089	Hs.174051 1.00E-112	1	small nuclear ribonucleoprotein 70kD polypept
103A5	4907	5011	NM_002209	Hs.174103 1.00E-48	1	Integrin, alpha L (antigen CD11A (p180), lymph
159F4	333	925	AF261087	Hs.174131 0	7	DNA-binding protein TAXREB107 mRNA, complete
588F9	333	926	NM_000970	Hs.174131 0	8	ribosomal protein L6 (RPL6), mRNA /cds=(26,892
187A2	2993	3464	NM_001096	Hs.174140 0	2	ATP citrate lyase (ACLY), mRNA /cds=(84,3401)
41C6	3652	3992	X03663	Hs.174142 0	1	c-fms proto-oncogene /cds=(300,3218) /gb=X0
465G10	199	489	BE674951	Hs.174144 1.00E-152	1	7e97g10.x1 cDNA, 3' end /clone=IMAGE:3293154
468H10	28	159	AI524263	Hs.174193 6.00E-62	1	th11g07.x1 cDNA, 3' end /clone=IMAGE:2118012
99C7	402	733	NM_006435	Hs.174195 1.00E-179	2	Interferon induced transmembrane protein 2 (
467E4	162	516	BF062628	Hs.174215 1.00E-157	1	7h62h05.x1 cDNA, 3' end /clone=IMAGE:3320601
74E5	2	485	D63789	Hs.174228 0	15	DNA for SCM-1beta precursor, complete cds /cd
470F11	108	305	AI590337	Hs.174258 1.00E-104	1	tn49c03.x1 cDNA, 3' end /clone=IMAGE:2171716
463D2	1	194	AV734916	Hs.175971 1.00E-94	1	AV734916 cDNA, 5' end /clone=cdAAHE11 /clone_
477E5	75	222	AI380955	Hs.176374 2.00E-33	1	tg18b08.x1 cDNA, 3' end /clone=IMAGE:2109111
473A9	1	296	AI708327	Hs.176430 1.00E-162	1	at04c02.x1 cDNA, 3' end /clone=IMAGE:2354114
468C3	24	235	AW081098	Hs.176498 6.00E-91	1	xc29a12.x1 cDNA, 3' end /clone=IMAGE:2585662
479D11	595	1810	J04162	Hs.176663 0	14	leukocyte IgG receptor (Fc-gamma-R) mRNA, complete c
108G2	388	579	AI638800	Hs.176920 6.00E-78	4	tt32e01.x1 cDNA, 3' end /clone=IMAGE:2242488
467A10	98	170	AI865603	Hs.177045 6.00E-27	1	wk47g03.x1 cDNA, 3' end /clone=IMAGE:2418580
117A6	1179	1403	AF116606	Hs.177415 1.00E-112	2	PRO0890 mRNA, complete cds /cds=(1020,1265) /
73F2	236	919	NM_016406	Hs.177507 0	4	hypothetical protein (HSPC155), mRNA /cds=(2
516D8	24	340	NM_006886	Hs.177530 1.00E-179	1	ATP synthase, H+ transporting, mitochondrial
479F4	163	676	NM_002414	Hs.177543 0	1	antigen identified by monoclonal antibodies 1
126A9	906	2105	NM_005534	Hs.177559 0	35	interferon gamma receptor 2 (interferon gamma
41H6	905	1826	U05875	Hs.177559 0	10	clone pSK1 interferon gamma receptor accessory factor
37G1	1690	2420	U62961	Hs.177584 0	1	succinyl CoA:3-oxoacid CoA transferase precursor (O
597H7	1764	2520	AF218002	Hs.177596 0	7	clone PP2464 unknown mRNA /cds=(675,2339) /gb

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

520B8	1036	1202	NM_006888	Hs.177656	4.00E-90	3	calmodulin 1 (phosphorylase kinase, delta) (C
151G7	2439	3048	J03473	Hs.177766	0	1	poly(ADP-ribose) synthetase mRNA, complete cds /cds=
116C6	318	834	BC001980	Hs.177781	1.00E-144	4	clone MGC:5618, mRNA, complete cds /cds=(155,
179C11	211	737	X07834	Hs.177781	0	3	manganese superoxide dismutase (EC 1.15.1.1)
98A9	213	648	M73547	Hs.178112	0	4	polyposis locus (DP1 gene) mRNA, complete cds /cds=(82
459E10	149	789	AK023719	Hs.178357	0	1	cDNA FLJ13657 fis, clone PLACE1011563 /cds=(8
120H8	137	404	NM_021029	Hs.178391	1.00E-136	1	ribosomal protein L44 (RPL44), mRNA /cds=(37,3
589E9	371	596	NM_000973	Hs.178551	1.00E-125	1	ribosomal protein L8 (RPL8), mRNA /cds=(43,816
142F5	1848	2210	D21090	Hs.178658	1.00E-179	1	XP-C repair complementing protein (p58/HHR23
120H11	402	532	AV716627	Hs.178703	9.00E-69	1	AV716627 cDNA, 5' end /clone=DCBBCH05 /clone_
98G11	3287	6017	NM_004859	Hs.178710	0	5	clathrin, heavy polypeptide (Hc) (CLTC), mRNA
177H1	142	421	BF130300	Hs.178732	1.00E-139	1	601818357F1 cDNA, 5' end /clone=IMAGE:4041902
472A10	421	562	AI681868	Hs.178784	4.00E-63	1	tx50a12.x1 cDNA, 3' end /clone=IMAGE:2272990
467G6	194	292	AW138461	Hs.179003	1.00E-49	1	UI-H-BI1-adg-e-06-0-UI.s1 cDNA, 3' end /clon
465C11	3312	3606	NM_016562	Hs.179152	1.00E-166	1	tol-like receptor 7 (LOC51284), mRNA /cds=(13
469F7	268	405	AI568459	Hs.179419	3.00E-45	1	tn39e07.x1 cDNA, 3' end /clone=IMAGE:2170020
99F11	750	2687	NM_006472	Hs.179526	0	73	upregulated by 1,25-dihydroxyvitamin D-3 (VD
39G9	526	2687	S73591	Hs.179526	0	17	brain-expressed HHCPA78 homolog VDUP1 (Gene)
102A1	2235	2659	AL034343	Hs.179565	0	1	DNA sequence from clone RP1-108C2 on
492B2	1074	2126	NM_002717	Hs.179574	1.00E-131	3	chromosome 6p12.
143F2	242	457	NM_005771	Hs.179608	1.00E-117	1	protein phosphatase 2 (formerly 2A), regulator
111G7	626	898	NM_002659	Hs.179657	1.00E-153	1	retinol dehydrogenase homolog (RDHL) mRNA /
585D2	61	3189	AL162068	Hs.179662	0	6	plasminogen activator, urokinase receptor (P
125G4	1159	1627	NM_000389	Hs.179665	1.00E-130	2	mRNA; cDNA DKFZp762G106 (from clone
331A1	51	377	AK026642	Hs.179666	1.00E-161	2	DKFZp762G1
516H12	19	362	NM_000997	Hs.179779	1.00E-180	3	cyclin-dependent kinase inhibitor 1A (p21, Ci
170A11	1390	2087	L20298	Hs.179881	0	1	FLJ22989 fis, clone KAT11824, highly sim
195H8	1732	2110	NM_001755	Hs.179881	1.00E-173	1	ribosomal protein L37 (RPL37), mRNA /cds=(28,3
127G6	2406	2924	AK022499	Hs.179882	0	2	transcription factor (CBFB) mRNA, 3' end /cds=(
461E6	610	1148	NM_014153	Hs.179898	0	1	core-binding factor, beta subunit (CBFB), tra
516B3	4	584	NM_000975	Hs.179943	1.00E-136	2	cDNA FLJ12437 fis, clone NT2RM1000118, weakly
62F8	24	537	X79234	Hs.179943	1.00E-175	1	HSPC055 protein (HSPC055), mRNA /cds=(1400,19
471B11	1990	2496	NM_005802	Hs.179982	0	1	ribosomal protein L11 (RPL11), mRNA /cds=(0,53
194B4	693	956	NM_004159	Hs.180062	1.00E-112	1	ribosomal protein L11 /cds=(0,536) /gb=
49D4	1002	1259	NM_002690	Hs.180107	1.00E-125	1	tumor protein p53-binding protein (TP53BPL),
184A11	26	515	AK024823	Hs.180139	0	2	proteasome (prosome, macropain) subunit, bet
593A8	43	535	NM_006937	Hs.180139	0	13	polymerase (DNA directed), beta (POLB), mRNA
61D10	102	722	AF161415	Hs.180145	0	1	FLJ21170 fis, clone CAS10946, highly sim
178A4	131	628	NM_017924	Hs.180201	0	2	SMT3 (suppressor of mif two 3, yeast) homolog 2
463H9	54	171	NM_005507	Hs.180370	1.00E-60	1	HSPC297 mRNA, partial cds /cds=(0,438) /gb=AF
162B9	2139	2386	AB013382	Hs.180383	1.00E-124	1	hypothetical protein FLJ20671 (FLJ20671), mR
190B7	1743	2386	NM_001946	Hs.180383	1.00E-124	2	cofilin 1 (non-muscle) (CFL1), mRNA /cds=(51,5
589B11	21	1566	NM_006597	Hs.180414	0	11	for DUSP6, complete cds /cds=(351,1496) /
73G2	21	1567	Y00371	Hs.180414	0	16	dual specificity phosphatase 6 (DUSP6), trans
62G1	985	1559	X89602	Hs.180433	0	1	heat shock 70kD protein 8 (HSPA8), mRNA /cds=(8
98F9	1479	3653	L38951	Hs.180446	0	9	hsc70 gene for 71 kd heat shock protein
590F12	283	614	NM_001026	Hs.180450	0	1	/cds=(83,2023)
597F2	2670	3046	AF187554	Hs.180532	0	47	rTS beta protein /cds=(17,1267) /gb=X896
482E2	85	366	AL571386	Hs.180546	1.00E-108	1	importin beta subunit mRNA, complete cds /cds=(
							ribosomal protein S24 (RPS24), mRNA /cds=(142,
							sperm antigen-36 mRNA, complete cds /cds=(234,
							AL571386 cDNA /clone=CS0DI009YL09-(3-prime)

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

109C2	324	682	BE540238	Hs.180549	1.00E-143	1	601059809F1 cDNA, 5' end /clone=IMAGE:3446283
68G8	1447	3594	AF123094	Hs.180566	0	3	API2-MLT fusion protein (API2-MLT) mRNA, comp
180B9	1851	2142	NM_002087	Hs.180577	1.00E-160	2	granulin (GRN), mRNA /cds=(62,1843) /gb=NM_00
51E4	880	2466	NM_005066	Hs.180610	0	6	splicing factor proline/glutamine rich (poly
50G4	880	1280	X70944	Hs.180610	0	1	PTB-associated splicing factor /cds=(85
127C8	317	3175	AK023143	Hs.180638	0	5	cDNA FLJ13081 fis, clone NT2RP3002033 /cds=(17
125E2	287	1692	AL117621	Hs.180777	0	2	mRNA; cDNA DKFZp564M0264 (from clone
521F11	1969	2431	AF126964	Hs.180799	0	1	DKFZp564
479C11	1186	2245	AK000271	Hs.180804	1.00E-155	2	C3HC4-type zinc finger protein (LZK1) mRNA, co
479C2	732	911	NM_001242	Hs.180841	3.00E-62	1	cDNA FLJ20264 fis, clone COLF7912
596D2	67	942	NM_000977	Hs.180842	0	11	/cds=UNKNOWN
41E9	884	1779	AL050337	Hs.180866	0	2	tumor necrosis factor receptor superfamily, m
196C10	679	1338	NM_000416	Hs.180866	0	2	ribosomal protein L13 (RPL13), mRNA /cds=(51,8
99A10	1	1655	AF218029	Hs.180877	0	11	DNA sequence from clone 503F13 on chromosome
65H9	1	1320	Z48950	Hs.180877	0	6	6q24.1-25
160G1	2065	2538	AF045555	Hs.180900	0	2	interferon gamma receptor 1 (IFNGR1), mRNA /cd
596B1	5	860	NM_001008	Hs.180911	0	5	clone PP781 unknown mRNA /cds=(113,523) /gb=A
192F11	1857	2521	AK000299	Hs.180952	0	1	hH3.3B gene for histone H3.3 /cds=(10,420) /gb=Z
75D10	94	1656	AY007118	Hs.181013	0	8	wbscr1 (WBSCR1) and wbscr5 (WBSCR5) genes,
46H2	105	1661	NM_002629	Hs.181013	0	5	com
107G10	4869	5527	AK024391	Hs.181043	0	1	ribosomal protein S4, Y-linked (RPS4Y), mRNA
179A1	22	908	AK001934	Hs.181112	0	2	cDNA FLJ20292 fis, clone HEP05374 /cds=(21,140
118D5	610	1130	NM_014166	Hs.181112	0	1	clone CDABP0006 mRNA sequence /cds=(20,784) /
483D9	659	915	X57809	Hs.181125	1.00E-123	1	phosphoglycerate mutase 1 (brain) (PGAM1), mR
596B10	499	1198	NM_005517	Hs.181163	0	2	FLJ14329 fis, clone PLACE4000259, highly
74A12	34	1674	AK026650	Hs.181165	0	192	FLJ11072 fis, clone PLACE1004982 /cds=(2
99H8	1079	2742	BC001412	Hs.181165	0	260	HSPC126 protein (HSPC126), mRNA /cds=(25,837)
70F10	144	840	AB015798	Hs.181195	0	1	rearranged immunoglobulin lambda light chain mRNA
64E10	72	856	BC002446	Hs.181195	0	2	/c
597F6	1119	1767	NM_001675	Hs.181243	0	3	high-mobility group (nonhistone chromosomal)
109D8	825	1233	D32129	Hs.181244	0	1	FLJ22997 fis, clone KAT11962, highly sim
593H10	465	1222	NM_016057	Hs.181271	0	3	eukaryotic translation elongation factor 1
127H10	4782	5154	AB020335	Hs.181300	0	1	HSJ2 mRNA for DnaJ homolog, complete cds /cds=
150F7	509	1238	M11353	Hs.181307	1.00E-175	5	MRJ gene for a member of protein family, clone
127F7	895	1057	NM_002107	Hs.181307	3.00E-85	2	activating transcription factor 4 (tax-respon
39H10	6	416	BF676042	Hs.181357	0	7	HLA class-I (HLA-A26) heavy chain, complete c
99G12	193	842	NM_002295	Hs.181357	0	28	CGI-120 protein (LOC51644), mRNA /cds=(37,570
66A12	312	1084	M20430	Hs.181366	0	4	Pancreas-specific TSA305 mRNA, complete cds
71H11	748	1096	NM_002125	Hs.181366	1.00E-176	1	H3.3 histone class C mRNA, complete cds
56E4	272	521	AJ827911	Hs.181400	1.00E-126	1	/cds=(374,784)
170F6	5255	5724	D63486	Hs.181418	0	1	H3 histone, family 3A (H3F3A), mRNA /cds=(374,7
464A11	5981	6322	NM_014730	Hs.181418	1.00E-159	1	602084011F1 cDNA, 5' end /clone=IMAGE:4248195
514F6	1	232	AW955745	Hs.181426	1.00E-117	1	laminin receptor 1 (67kD, ribosomal protein SA
177E2	690	947	U81002	Hs.181465	1.00E-130	2	MHC class II HLA-DR-beta (DR2-DQw1/DR4 DQw3)
99B5	260	1660	NM_001549	Hs.181874	0	6	mRNA, co
							major histocompatibility complex, class II,
							wf34e11.x1 cDNA, 3' end /clone=IMAGE:2357516
							KIAA0152 gene, complete cds /cds=(128,1006)
							KIAA0152 gene product (KIAA0152), mRNA /cds=(
							EST367815 cDNA /gb=AW955745 /gi=8145428 /ug=
							TRAF4 associated factor 1 mRNA, partial cds /c
							interferon-induced protein with tetratricope

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

595H9	104	645	M90356	Hs.181967 0	1	BTF3 protein homologue gene, complete cds /cds=(0,644
67E2	1057	1782	AK026664	Hs.182225 4.00E-85	3	FLJ23011 fis, clone LNG00572 /cds=(288,7
190A3	319	1615	NM_014052	Hs.182238 0	7	GW128 protein (GW128), mRNA /cds=(698,889) /g
140B10	1770	2034	U46751	Hs.182248 2.00E-92	1	phosphotyrosine independent ligand p62 for the Lck S
158H11	371	597	D50420	Hs.182255 1.00E-126	1	OTK27, complete cds /cds=(94,480) /gb
584A12	95	1397	NM_005008	Hs.182255 0	3	non-histone chromosome protein 2 (S. cerevisia
40G2	735	908	Y00503	Hs.182265 7.00E-41	1	keratin 19 /cds=(32,1234) /gb=Y00503 /gi=340
596E7	1	886	NM_001743	Hs.182278 0	3	calmodulin 2 (phosphorylase kinase, delta) (C
129E10	36	350	L29348	Hs.182378 1.00E-174	2	granulocyte-macrophage colony-stimulating
487G1	184	934	NM_002952	Hs.182426 0	3	ribosomal protein S2 (RPS2), mRNA /cds=(240,90
517G6	126	1497	NM_005742	Hs.182429 0	4	protein disulfide isomerase-related protein
60E12	10	1329	M16342	Hs.182447 0	4	nuclear ribonucleoprotein particle (hnRNP) C protein
98E9	10	1184	NM_004500	Hs.182447 0	8	heterogeneous nuclear ribonucleoprotein C (
496A4	87	1835	NM_014394	Hs.182470 0	2	PTD010 protein (PTD010), mRNA /cds=(129,1088)
110F11	947	1571	AF061738	Hs.182579 0	2	leucine aminopeptidase mRNA, complete cds /cd
124E1	1330	1889	NM_005739	Hs.182591 0	2	RAS guanyl releasing protein 1 (calcium and DA
143B2	32	565	Z47087	Hs.182643 0	1	RNA polymerase II elongation factor-like
103D2	161	538	NM_001015	Hs.182740 8.00E-97	5	ribosomal protein S11 (RPS11), mRNA /cds=(15,4
331C2	1310	1585	D64015	Hs.182741 1.00E-136	1	for T-cluster binding protein, complete c
59E9	27	269	BF245224	Hs.182825 1.00E-105	1	601863885F1 cDNA, 5' end /clone=IMAGE:4082396
525E3	12	261	NM_007209	Hs.182825 1.00E-135	2	ribosomal protein L35 (RPL35), mRNA /cds=(27,3
70C9	189	625	BE963551	Hs.182928 1.00E-129	1	601657346R1 cDNA, 3' end /clone=IMAGE:3866266
177B9	14	561	BF242969	Hs.182937 0	2	601877739F1 cDNA, 5' end /clone=IMAGE:4106289
519H3	34	526	NM_021130	Hs.182937 0	1	peptidylprolyl isomerase A (cyclophilin A) (
159A5	3163	3579	AK026491	Hs.182979 1.00E-141	2	FLJ22838 fis, clone KAIJA4494, highly sim
106G11	2956	3527	AF204231	Hs.182982 1.00E-138	2	88-kDa Golgi protein (GM88) mRNA, complete cds
169A3	2117	2495	M33336	Hs.183037 1.00E-105	3	cAMP-dependent protein kinase type I-alpha subunit (
124H9	2767	2955	NM_002734	Hs.183037 7.00E-91	1	protein kinase, cAMP-dependent, regulatory,
107B3	2877	3182	U17989	Hs.183105 1.00E-170	1	nuclear autoantigen GS2NA mRNA, complete cds /
476A6	538	893	NM_016523	Hs.183125 0	1	killer cell lectin-like receptor F1 (KLRF1), m
75A1	629	1222	AK001433	Hs.183297 0	1	FLJ10571 fis, clone NT2RP2003121, weakly
597E11	97	1656	AF248966	Hs.183434 0	5	HT028 mRNA, complete cds /cds=(107,1159) /gb=
124A2	2015	2756	AK024275	Hs.183506 0	1	cDNA FLJ14213 fis, clone NT2RP3003572 /cds=(11
74F2	2082	2418	U53347	Hs.183556 1.00E-177	2	neutral amino acid transporter B mRNA, complete cds /
482C5	1211	1688	NM_018399	Hs.183656 0	1	VNN3 protein (HSA238982), mRNA /cds=(45,1550)
594H12	1718	3458	NM_001418	Hs.183684 0	4	eukaryotic translation initiation factor 4 g
61H11	1457	2024	U73824	Hs.183684 0	2	p97 mRNA, complete cds /cds=(306,3029) /gb=U73824 /g
75H7	342	2258	M26880	Hs.183704 0	7	ubiquitin mRNA, complete cds /cds=(135,2192) /gb=M26
599E7	2306	3111	D44640	Hs.183706 0	6	HUMSUPY040 cDNA /clone=035-00-1 /gb=D44640 /
518H4	1554	1973	NM_002078	Hs.183773 0	1	golgi autoantigen, golgin subfamily a, 4 (GOL
520C3	98	255	NM_018955	Hs.183842 3.00E-64	1	ubiquitin B (UBB), mRNA /cds=(94,783) /gb=N
102C11	1730	1808	M15182	Hs.183868 8.00E-33	2	beta-glucuronidase mRNA, complete cds /cds=(26,1981
523D3	1730	2183	NM_000181	Hs.183868 0	2	glucuronidase, beta (GUSB), mRNA /cds=(26,198
187A12	122	828	NM_003589	Hs.183874 0	1	cullin 4A (CUL4A), mRNA /cds=(160,2139) /gb=N
156F4	228	907	AF119665	Hs.184011 0	4	inorganic pyrophosphatase complete cds
525B8	225	791	NM_021129	Hs.184011 0	2	pyrophosphatase (Inorganic) (PP), nuclear ge
589B1	3	394	NM_000993	Hs.184014 0	10	ribosomal protein L31 (RPL31), mRNA /cds=(7,38

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

99D6	3909	4308	NM_004985	Hs.184050	1.00E-145	1	v-KI-ras2 Kirsten rat sarcoma 2 viral oncogene
165B3	12	345	BE964596	Hs.184052	1.00E-90	1	601658521R1 cDNA, 3' end /clone=IMAGE:3885796
591G6	1348	1958	NM_022152	Hs.184052	0	3	PP1201 protein (PP1201), mRNA /cds=(66,1001)
114E11	1780	1942	AK025645	Hs.184062	4.00E-59	1	cDNA: FLJ21992 fis, clone HEP06554 /cds=(60,84
597E4	8	407	NM_000982	Hs.184108	1.00E-114	6	ribosomal protein L21 (gene or pseudogene) (RP
162C5	295	1062	L41887	Hs.184167	0	3	splicing factor, arginine/serine-rich 7 (SFR
109F6	151	749	AF054182	Hs.184211	0	1	mitochondrial processing peptidase beta-subu
462C6	4590	5087	NM_015001	Hs.184245	0	1	KIAA0929 protein Mxx2 interacting nuclear tar
517D1	1510	1936	NM_004252	Hs.184276	1.00E-162	7	solute carrier family 9 (sodium/hydrogen exch
55E3	174	427	NM_018370	Hs.184465	1.00E-107	1	hypothetical protein FLJ11259 (FLJ11259), mR
50F9	2484	3108	AB023182	Hs.184523	0	1	for KIAA0965 protein, partial cds /cds=(0
100A4	297	1941	AK025730	Hs.184542	1.00E-149	3	FLJ22077 fis, clone HEP12728, highly sim
113D4	950	1623	NM_016061	Hs.184542	0	1	CGI-127 protein (LOC51646), mRNA /cds=(125,49
145D11	41	339	BE730026	Hs.184582	1.00E-111	1	601562642F1 cDNA, 5' end /clone=IMAGE:3832258
595F4	69	548	NM_000986	Hs.184582	0	1	ribosomal protein L24 (RPL24), mRNA /cds=(39,5
108H10	250	701	U00946	Hs.184592	0	1	clone A9A2BRB5 (CAC)n/(GTG)n repeat-containing
43B5	4399	4488	AF104032	Hs.184601	3.00E-24	1	mRN
104F12	298	1713	NM_014999	Hs.184627	0	2	L-type amino acid transporter subunit LAT1 mRNA
122E8	513	995	AF035307	Hs.184697	0	2	KIAA0118 protein (KIAA0118), mRNA /cds=(255,9
40H2	66	2605	M37197	Hs.184760	1.00E-177	4	clone 23785 mRNA sequence /cds=UNKNOWN
514E4	29	519	NM_000984	Hs.184776	0	3	/gb=AF
589A7	736	983	AK025533	Hs.184793	1.00E-138	1	CCAAT-box-binding factor (CBF) mRNA, complete cds
142G5	1918	2157	AL049782	Hs.184938	8.00E-83	3	/c
462G9	178	398	AI085568	Hs.185062	1.00E-76	1	ribosomal protein L23a (RPL23A), mRNA /cds=(2
470C12	81	333	T98171	Hs.185675	1.00E-105	1	cDNA: FLJ21880 fis, clone HEP02743 /cds=UNKNOWN
463F2	3175	3359	NM_014686	Hs.186840	1.00E-72	1	Novel human gene mapping to chromosome 13
461E4	907	1118	NM_018519	Hs.186874	4.00E-91	1	/cds=UNKNOWN /gb=A
155A1	53	379	AI619574	Hs.187362	1.00E-109	1	oy68b05.x1 cDNA, 3' end /clone=IMAGE:1670961
461C9	2948	3458	NM_014504	Hs.187660	0	1	ye56c12.s1 cDNA, 3' end /clone=IMAGE:121750 /
470F2	5	331	BE646499	Hs.187872	1.00E-156	1	KIAA0355 gene product (KIAA0355), mRNA /cds=(
68D12	590	740	AW963239	Hs.187908	4.00E-66	1	hypothetical protein PRO2266 (PRO2266), mRNA
75H12	2012	2585	AL110269	Hs.187991	0	1	ty50c09.x1 cDNA, 3' end /clone=IMAGE:2282512
167G4	1474	1958	NM_015626	Hs.187991	0	1	putative Rab5 GDP/GTP exchange factor homologue
137G3	54	197	AI625368	Hs.188365	2.00E-34	46	7e87h02.x1 cDNA, 3' end /clone=IMAGE:3292179
464C12	183	404	AA432364	Hs.188777	7.00E-94	1	EST375312 /gb=AW963239 /gi=8153075 /ug=
467E9	29	183	AA576947	Hs.188886	1.00E-63	1	cDNA DKFZp564A122 (from clone DKFZp564A1
467B4	349	459	AI392805	Hs.189031	2.00E-49	1	DKFZP564A122 protein (DKFZP564A122), mRNA /c
461E2	242	473	BE674964	Hs.190065	1.00E-109	1	ts37c10.x1 cDNA, 3' end /clone=IMAGE:2230770
466F4	58	295	BG326781	Hs.190219	1.00E-132	1	zw76a09.s1 cDNA, 3' end /clone=IMAGE:782104 /
465H4	111	558	AA582958	Hs.190229	0	1	nm82b04.s1 cDNA, 3' end /clone=IMAGE:1074703
470F9	26	529	AI763206	Hs.190453	0	1	tg04h03.x1 cDNA, 3' end /clone=IMAGE:2107829
66H12	1	3459	D00099	Hs.190703	0	5	7f11b09.x1 cDNA, 3' end /clone=IMAGE:3294329
472E1	338	540	AW294083	Hs.190904	2.00E-46	1	602425659F1 cDNA, 5' end /clone=IMAGE:4563471
522G10	433	970	NM_003757	Hs.192023	0	2	nn80d08.s1 cDNA, 3' end /clone=IMAGE:1090191
54G8	29	410	AW838827	Hs.192123	0	1	wh95e09.x1 cDNA, 3' end /clone=IMAGE:2388520
465G4	261	515	BF224348	Hs.192463	1.00E-104	1	for Na,K-ATPase alpha-subunit, complete
468F9	392	487	AI524039	Hs.192524	2.00E-36	1	UI-H-B12-ahg-b-05-0-UI.s1 cDNA, 3' end /clon
466C6	111	392	AW972048	Hs.192534	1.00E-153	1	eukaryotic translation initiation factor 3,
							CM1-LT0059-280100-108-e02 /gb=AW838827
							7q86c05.x1 cDNA /clone=IMAGE /gb=BF224348 /g
							tg99h02.x1 cDNA, 3' end /clone=IMAGE:2116947
							EST384032 cDNA /gb=AW972048 /gi=8161789 /ug=

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

184F12	1	677	AF090927	Hs.192705 0	1	clone HQ0457 PRO0457 mRNA, complete cds /cds=(
464C11	1	65	BE298181	Hs.192755 3.00E-23	1	601118566F1 cDNA, 5' end /clone=IMAGE:3028193
465H3	108	706	BG036938	Hs.192965 0	1	602287708F1 cDNA, 5' end /clone=IMAGE:4375153
169F9	4138	4890	D87454	Hs.192966 0	1	KIAA0265 gene, partial cds /cds=(0,1205) /gb
118H10	1104	1858	AK024263	Hs.193063 1.00E-132	2	cDNA FLJ14201 fis, clone NT2RP3002955 /cds=UNK
472F3	28	405	BF062295	Hs.193237 0	1	7k76b11.x1 cDNA, 3' end /clone=IMAGE:3481293
40A5	1933	2611	X12830	Hs.193400 0	1	interleukin-6 (IL-6) receptor /cds=(437,184
63B5	327	582	AW959162	Hs.193669 1.00E-103	1	EST371232 /gb=AW959162 /gi=8148846 /ug=
52G10	803	1173	M57627	Hs.193717 0	1	interleukin 10 (IL10) mRNA, complete cds /cds=(30,568
469F5	2088	2438	AL110204	Hs.193784 1.00E-179	1	mRNA; cDNA DKFZp586K1922 (from clone DKFZp586K
598H7	1428	1715	NM_014828	Hs.194035 1.00E-119	1	KIAA0737 gene product (KIAA0737), mRNA /cds=(
462B6	103	546	BE618004	Hs.194362 1.00E-165	1	601462354F1 cDNA, 5' end /clone=IMAGE:3865861
472F12	1177	1667	AB036737	Hs.194369 0	2	mRNA for RERE, complete cds /cds=(636,5336) /g
182E10	11785	13486	U82828	Hs.194382 0	5	ataxia telangiectasia (ATM) gene, complete cd
458F4	258	408	NM_022739	Hs.194477 2.00E-62	1	E3 ubiquitin ligase SMURF2 (SMURF2), mRNA /cd
583D2	1425	1732	NM_014232	Hs.194534 1.00E-136	1	vesicle-associated membrane protein 2 (synapt
38H8	1198	1620	U89387	Hs.194638 0	1	RNA polymerase II subunit hSRP4 gene, complete cds /
122H10	5292	5481	NM_023005	Hs.194688 4.00E-80	1	bromodomain adjacent to zinc finger domain, 1B
186G9	1	1908	AL136945	Hs.194718 0	2	mRNA; cDNA DKFZp586O012 (from clone DKFZp586O0
113F3	1852	2375	NM_000634	Hs.194778 0	1	interleukin 8 receptor, alpha (IL8RA), mRNA /
106A3	35	404	U11870	Hs.194778 0	1	interleukin-8 receptor type A (IL8RA) gene, promote
473B8	1001	1314	AF319438	Hs.194976 1.00E-172	1	SH2 domain-containing phosphatase anchor pro
57F9	442	1934	Y14039	Hs.195175 0	27	mRNA for CASH alpha protein /cds=(481,1923) /g
49E5	2314	2512	NM_018666	Hs.195292 2.00E-37	1	putative tumor antigen (SAGE), mRNA /cds=(167,
473B10	406	532	BE671815	Hs.195374 1.00E-54	1	7a47c12.x1 cDNA, 3' end /clone=IMAGE:3221878
595B5	59	311	AI653766	Hs.195378 6.00E-46	1	ty01b06.x1 cDNA, 3' end /clone=IMAGE:2277779
60G4	42	1554	D13642	Hs.195514 0	2	KIAA0017 gene, complete cds /cds=(136,1335)
473B9	739	927	AF241534	Hs.196015 2.00E-73	1	hydantidiform mole associated and imprinted (H
99C10	1075	1424	NM_000294	Hs.196177 1.00E-115	1	phosphorylase kinase, gamma 2 (testis) (PHKG2
45H9	956	1405	AF283645	Hs.196270 0	1	folate transporter/carrier mRNA, complete cd
54F9	2567	2954	U04636	Hs.196384 0	1	cyclooxygenase-2 (hCox-2) gene, complete cds /cds=(1
38F12	401	606	AI984074	Hs.196398 1.00E-104	1	wz56c02.x1 cDNA, 3' end /clone=IMAGE:2562050
157G1	403	551	AJ006835	Hs.196769 7.00E-77	2	RNA transcript from U17 small nucleolar RNA ho
163F4	1	402	AI650871	Hs.197028 0	1	wa95f03.x1 cDNA, 3' end /clone=IMAGE:2303933
160B3	408	476	AI832038	Hs.197091 5.00E-27	1	wj99e02.x1 3' end /clone=IMAGE:2410970
105E8	1299	3674	AB020657	Hs.197298 0	6	for KIAA0850 protein, complete cds /cds=(
178G12	2097	3593	AF205218	Hs.197298 0	8	NS1-binding protein-like protein mRNA, compl.
585F1	284	1711	NM_001469	Hs.197345 0	4	thyroid autoantigen 70kD (Ku antigen) (G22P1)
39C10	545	1984	Z83840	Hs.197345 0	2	DNA sequence from clone CTA-216E10 on chromosome 22 C
58E12	2162	3013	NM_001530	Hs.197540 0	2	hypoxia-inducible factor 1, alpha subunit (ba
125G11	3673	4059	D29805	Hs.198248 0	1	mRNA for beta-1,4-galactosyltransferase, complete
41H10	6	821	M33906	Hs.198253 1.00E-156	2	MHC class II HLA-DQA1 mRNA, complete cds /cds=(43,810)
186A11	551	1031	NM_004544	Hs.198271 0	2	NADH dehydrogenase (ubiquinone) 1 alpha subco
126D8	993	1381	NM_021105	Hs.198282 0	1	phospholipid scramblase 1 (PLSCR1), mRNA /cds
174C12	4824	5257	NM_003070	Hs.198296 0	1	SWI/SNF related, matrix associated, actin dep

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

109C6	128	833	X04327	Hs.198365 0	1	erythrocyte 2,3-bisphosphoglycerate mutase mRNA EC
64B12	4383	5289	NM_000189	Hs.198427 0	2	hexokinase 2 (HK2), mRNA /cds=(1490,4243) /gb
70B4	3267	5289	Z46376	Hs.198427 0	4	HK2 mRNA for hexokinase II /cds=(1490,4243) /gb=Z
478H6	186	475	AI978581	Hs.198694 1.00E-129	1	wq72d08.x1 cDNA, 3' end /clone=IMAGE:2476815
587G1	767	1143	NM_006837	Hs.198767 1.00E-170	1	COP9 (constitutive photomorphogenic, Arabido
465F12	373	554	BE621611	Hs.198802 2.00E-77	1	601493754T1 cDNA, 3' end /clone=IMAGE:3895836
123B3	310	3608	AB011108	Hs.198891 0	3	mRNA for KIAA0536 protein, partial cds /cds=(0,
157H3	3457	5268	D50929	Hs.198899 0	2	KIAA0139 gene, complete cds /cds=(128,4276)
477H1	35	592	NM_002229	Hs.198951 0	1	jun B proto-oncogene (JUNB), mRNA /cds=(253,12
53C5	979	1295	X51345	Hs.198951 1.00E-160	1	jun-B mRNA for JUN-B protein /cds=(253,1296) /gb=X513
54H8	350	501	AW450874	Hs.199014 5.00E-81	1	UI-H-BI3-all-a-11-0-UI.s1 cDNA, 3' end /clon
520E12	3506	3878	L04731	Hs.199160 0	1	translocation T(4:11) of ALL-1 gene to chromoso
57F4	5941	6266	NM_006267	Hs.199179 1.00E-158	1	RAN binding protein 2 (RANBP2), mRNA /cds=(127,
50B10	5	3645	D86984	Hs.199243 0	2	KIAA0231 gene, partial cds /cds=(0,1430) /gb
68E12	1757	2052	L25124	Hs.199248 1.00E-156	2	prostaglandin E2 receptor mRNA, complete cds /
484H3	1879	1958	NM_000958	Hs.199248 3.00E-33	1	prostaglandin E receptor 4 (subtype EP4) (PTGE
466G6	368	3287	NM_013233	Hs.199263 0	2	Ste-20 related kinase (SPAK), mRNA /cds=(173,1
464B9	633	1068	AF015041	Hs.199291 0	1	NUMB-R protein (NUMB-R) mRNA, complete cds /c
522F9	2	116	AI669591	Hs.200442 5.00E-59	1	tw34b09.x1 cDNA, 3' end /clone=IMAGE:2261561
60F11	4945	5114	AB040942	Hs.201500 7.00E-92	1	for KIAA1509 protein, partial cds /cds=(0
72D12	819	1293	AF104398	Hs.201673 0	1	cornichon mRNA, complete cds /cds=(56,490) /g
105G5	1629	2130	AF091263	Hs.201675 0	1	RNA binding motif protein 5 (RBM5) mRNA, comple
116G3	1637	2854	NM_005778	Hs.201675 0	2	RNA binding motif protein 5 (RBM5), mRNA /cds=(
40A10	254	431	AI693179	Hs.201789 5.00E-85	1	wd68d12.x1 cDNA, 3' end /clone=IMAGE:2336759
473D4	421	547	BE551203	Hs.201792 3.00E-49	1	7b55h12.x1 cDNA, 3' end /clone=IMAGE:3232199
472D8	313	623	AW390251	Hs.202402 1.00E-123	1	CM4-ST0182-051099-021-b06 cDNA /gb=AW390251
66H5	176	482	AI271437	Hs.203041 1.00E-173	1	ql19c05.x1 cDNA, 3' end /clone=IMAGE:1856936
594C2	35	368	AW131782	Hs.203606 1.00E-147	2	xf34e08.x1 cDNA, 3' end /clone=IMAGE:2619974
138B12	101	420	AW194379	Hs.203755 1.00E-93	3	xm08h07.x1 3' end /clone=IMAGE:2683645
473D3	1	234	AI538474	Hs.203784 1.00E-117	1	td06h08.x1 cDNA, 3' end /clone=IMAGE:2074911
471A5	113	442	AI393908	Hs.203829 1.00E-153	1	tg05f10.x1 cDNA, 3' end /clone=IMAGE:2107915
40A4	1621	2037	AF004230	Hs.204040 0	1	monocyte/macrophage Ig-related receptor MIR
463H1	7	319	AW977671	Hs.204214 1.00E-161	1	EST389900 cDNA /gb=AW977671 /gi=8168049 /ug=
478E7	25	434	AI762023	Hs.204610 0	2	wh89f04.x1 cDNA, 3' end /clone=IMAGE:2387935
55E11	324	469	AI741246	Hs.204656 1.00E-58	12	wg26g09.x1 cDNA, 3' end /clone=IMAGE:2366272
478G10	345	476	AI760901	Hs.204703 9.00E-34	1	wi09h06.x1 cDNA, 3' end /clone=IMAGE:2389787
470E11	374	507	AI762741	Hs.204707 2.00E-49	1	wh93h02.x1 cDNA, 3' end /clone=IMAGE:2388339
478F5	179	437	AI086035	Hs.204873 1.00E-110	1	oy70h04.x1 cDNA, 3' end /clone=IMAGE:1671223
464G4	33	320	AI749444	Hs.204929 5.00E-50	1	at24c03.x1 cDNA, 3' end /clone=IMAGE:2356036
472D2	88	198	AI760018	Hs.205071 4.00E-54	1	wh83b02.x1 cDNA, 3' end /clone=IMAGE:2387307
470D9	5	422	AW976641	Hs.205079 0	1	EST388750 cDNA /gb=AW976641 /gi=8167872 /ug=
470D4	122	500	AA885473	Hs.205175 0	1	am10c12.s1 cDNA, 3' end /clone=IMAGE:1466422
473C5	285	525	BF679831	Hs.205319 2.00E-96	1	602154415F1 cDNA, 5' end /clone=IMAGE:4295595
470E7	295	521	AI762557	Hs.205327 9.00E-95	2	wh92f07.x1 cDNA, 3' end /clone=IMAGE:2388229
478F11	11	447	AI761141	Hs.205452 0	3	wh97g08.x1 cDNA, 3' end /clone=IMAGE:2388734
459A12	111	323	N72600	Hs.205555 9.00E-96	1	za46f08.s1 cDNA, 3' end /clone=IMAGE:295623 /
470F4	214	481	AW977820	Hs.205675 1.00E-131	1	EST389824 cDNA /gb=AW977820 /gi=8168971 /ug=
102G3	1	249	BF680988	Hs.205696 2.00E-78	1	602156272F1 cDNA, 5' end /clone=IMAGE:4297216
472B2	312	700	BF794256	Hs.206761 0	1	602255454F1 cDNA, 5' end /clone=IMAGE:4338949

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

470C1	1113	1643	AK024118	Hs.206858 0	1	cDNA FLJ14056 fis, clone HEMBB1000335 /cds=UNK
469H7	1076	1215	U15177	Hs.206984 3.00E-69	1	cosmid CRI-JC2015 at D10S289 in 10sp13 /cds=(0,1214)
61F9	5	181	AW340421	Hs.207995 4.00E-94	1	hc96h02.x1 cDNA, 3' end /clone=IMAGE:2907891
473C2	239	551	BF439675	Hs.208854 1.00E-151	1	nab69e11.x1 cDNA /clone=IMAGE /gb=BF439675 /
62G11	159	292	BE781611	Hs.208985 1.00E-60	1	601467463F1 cDNA, 5' end /clone=IMAGE:3870902
472E2	258	554	AJ343473	Hs.209203 1.00E-135	1	tb97a08.x1 cDNA, 3' end /clone=IMAGE:2062262
471C10	148	498	AJ768880	Hs.209511 0	1	wh71e04.x1 cDNA, 3' end /clone=IMAGE:2386206
470G9	416	561	AJ798144	Hs.209609 4.00E-63	1	wh81g12.x1 cDNA, 3' end /clone=IMAGE:2387206
478C10	120	447	AJ809310	Hs.210385 1.00E-158	2	wh75h08.x1 cDNA, 3' end /clone=IMAGE:2386623
476B7	64	341	AJ075288	Hs.210727 1.00E-151	2	oy69h10.x1 cDNA, 3' end /clone=IMAGE:1671139
477G4	915	1541	AB040919	Hs.210958 0	1	mRNA for KIAA1486 protein, partial cds /cds=(1
468C2	215	498	AJ832182	Hs.210995 1.00E-145	1	td13h11.x1 cDNA, 3' end /clone=IMAGE:2075589
472D11	1	300	AJ860120	Hs.211024 1.00E-126	1	wh39e01.x1 cDNA, 3' end /clone=IMAGE:2383128
470D3	30	317	AW362304	Hs.211194 1.00E-137	1	CM3-CT0275-031199-031-a08 cDNA /gb=AW362304
179F6	105	551	AJ823649	Hs.211535 0	1	wi85g03.x1 3' end /clone=IMAGE:2400148
477G12	2439	4050	NM_020993	Hs.211563 0	4	B-cell CLL/lymphoma 7A (BCL7A), mRNA /cds=(953
39A11	5178	5792	L10717	Hs.211576 0	2	T cell-specific tyrosine kinase mRNA, complete
187B9	5365	5790	NM_005546	Hs.211576 0	1	IL2-inducible T-cell kinase (ITK), mRNA /cds=
152C2	3965	4297	Z22551	Hs.211577 1.00E-174	1	kinectin gene /cds=(69,4139) /gb=Z22551 /gl=296
120A2	2556	2917	NM_005955	Hs.211581 0	1	metal-regulatory transcription factor 1 (MTF
147A2	2915	4407	M59465	Hs.211600 0	6	tumor necrosis factor alpha inducible protein A20 mRNA
583B12	2404	3981	NM_006290	Hs.211600 0	11	tumor necrosis factor, alpha-induced protein
589F3	1905	2274	AF090693	Hs.211610 0	1	apoptosis-related RNA binding protein (NAPOR-
470G11	277	462	AJ862623	Hs.211744 5.00E-99	1	wh99h10.x1 cDNA, 3' end /clone=IMAGE:2388931
473F2	195	423	BE675092	Hs.211828 2.00E-95	1	7f02d07.x1 cDNA, 3' end /clone=IMAGE:3293485
517D2	1059	1366	BC000747	Hs.211973 1.00E-162	2	Similar to homolog of Yeast RRP4 (ribosomal RN
109D9	391	533	AJ922921	Hs.212553 2.00E-68	1	wn81c05.x1 cDNA, 3' end /clone=IMAGE:2452232
494H12	172	549	AJ912585	Hs.213385 0	3	we11d07.x1 cDNA, 3' end /clone=IMAGE:2340781
596G11	4740	5687	AB007916	Hs.214646 0	8	mRNA for KIAA0447 protein, partial cds /cds=(2
104C12	843	1787	AL031282	Hs.215595 0	2	DNA sequence from clone 283E3 on chromosome 1p36.21-36
124F8	1391	2913	NM_002074	Hs.215595 0	4	guanine nucleotide binding protein (G protein)
157E8	1264	1627	AK001548	Hs.215766 0	4	FLJ10686 fis, clone NT2RP3000252, highly
519G3	1729	2094	NM_012341	Hs.215766 0	1	GTP-binding protein (NGB), mRNA /cds=(23,1924
473E7	2278	2472	AB022663	Hs.215857 3.00E-52	1	HFB30 mRNA, complete cds /cds=(236,1660) /gb=
104F7	4	1324	D00017	Hs.217493 0	3	for lipocortin II, complete cds /cds=(49,1
58G2	11	1324	NM_004039	Hs.217493 0	7	annexin A2 (ANXA2), mRNA /cds=(49,1068) /gb=N
467D4	27	443	AI392814	Hs.221014 1.00E-180	1	tg10a02.x1 cDNA, 3' end /clone=IMAGE:2108330
463B1	69	457	AV686223	Hs.221642 0	1	AV686223 cDNA, 5' end /clone=GKCGXH11 /clone_
464D10	295	552	BF058398	Hs.221695 1.00E-115	1	7k30d01.x1 cDNA, 3' end /clone=IMAGE:3476785
466C12	1	427	AI540165	Hs.222186 0	1	td10d05.x1 cDNA, 3' end /clone=IMAGE:2075241
125H10	2596	2917	AB046830	Hs.222746 0	1	mRNA for KIAA1610 protein, partial cds /cds=(0
473C4	1	193	BF435098	Hs.222833 9.00E-72	1	7p05g01.x1 cDNA, 3' end /clone=IMAGE:3645097
37B4	18	371	AW389509	Hs.223747 1.00E-147	1	CM3-ST0163-051099-019-b11 /gb=AW389509
470H7	106	357	AI766706	Hs.223935 1.00E-116	1	wi02g11.x1 cDNA, 3' end /clone=IMAGE:2389124
472D12	1	370	AL133721	Hs.224680 0	1	DKFZp761H09121_r1 cDNA, 5' end /clone=DKFZp76
124E4	53	208	AI874107	Hs.224760 7.00E-50	3	wm49b01.x1 cDNA, 3' end /clone=IMAGE:2439241
477G3	146	412	AJ400714	Hs.225567 1.00E-141	1	tg93g12.x1 cDNA, 3' end /clone=IMAGE:2116390
112F12	2313	2799	AL163279	Hs.225674 0	1	chromosome 21 segment HS21C079 /cds=(0,6888)
118D12	6187	6775	NM_015384	Hs.225767 0	1	IDN3 protein (IDN3), mRNA /cds=(706,7182) /gb
109B7	2208	3315	AF119417	Hs.225939 0	2	nonfunctional GM3 synthase mRNA, alternative



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

125A8	2877	3381	NM_006999	Hs.225951	0	1	topoisomerase-related function protein 4-1
129C8	5510	5893	AF012108	Hs.225977	0	1	Amplified in Breast Cancer (AIB1) mRNA, complete
39G12	4498	4859	NM_014977	Hs.227133	1.00E-93	2	KIAA0670 protein/acinus (KIAA0670), mRNA /cd
153D10	1	286	AF000145	Hs.227400	1.00E-139	2	germinal center kinase related protein kinase
464B12	901	1425	AL050131	Hs.227429	0	1	mRNA; cDNA DKFZp5861111 (from clone DKFZp58611
459D9	3828	4314	NM_004841	Hs.227806	0	1	ras GTPase activating protein-like (NGAP), mR
135E9	135	773	NM_004049	Hs.227817	0	1	BCL2-related protein A1 (BCL2A1), mRNA /cds=(
59F10	123	808	Y09397	Hs.227817	0	12	GRS protein /cds=(102,629) /gb=Y09397 /
516H4	1901	2462	NM_014287	Hs.227823	0	1	pM5 protein (PM5), mRNA /cds=(0,3668) /gb=NM_0
107C12	2776	3390	Y15906	Hs.227913	0	1	for XAGL protein /cds=(132,1646) /gb=Y159
152C7	171	1390	AF052155	Hs.227949	0	2	clone 24761 mRNA sequence /cds=UNKNOWN /gb=AF
522G8	108	293	AI917348	Hs.228486	2.00E-70	1	ts83d10.x1 cDNA, 3' end /clone=IMAGE:2237875
66C7	304	445	AI094726	Hs.228795	1.00E-26	1	qa08f05.x1 cDNA, 3' end /clone=IMAGE:1686177
585D1	51	294	AI199388	Hs.228817	5.00E-73	1	qs75e05.x1 cDNA, 3' end /clone=IMAGE:1943936
468E9	113	324	AI523873	Hs.228926	7.00E-77	2	tg97c12.x1 cDNA, 3' end /clone=IMAGE:2116726
466F1	44	139	AI380491	Hs.229374	3.00E-39	2	tf95b10.x1 cDNA, 3' end /clone=IMAGE:2107003
182F1	40	465	AI354231	Hs.229385	1.00E-138	4	qv12c04.x1 cDNA, 3' end /clone=IMAGE:1981350
465C1	237	316	AW812896	Hs.229868	3.00E-38	1	RC3-ST0186-250200-018-a11 cDNA /gb=AW812896
178H7	42	353	AI581732	Hs.229918	1.00E-68	5	ar74f03.x1 cDNA, 3' end /clone=IMAGE:2128349
72H6	48	534	AI818777	Hs.229990	1.00E-85	3	w11f10.x1 cDNA, 3' end /clone=IMAGE:2424619
181E9	52	279	AI827451	Hs.229993	1.00E-66	1	w17d11.x1 cDNA, 3' end /clone=IMAGE:2425173
38H1	225	311	AI579979	Hs.230430	1.00E-25	1	tq45a01.x1 cDNA, 3' end /clone=IMAGE:2211720
489G11	66	369	AI818596	Hs.230492	1.00E-112	5	wk74d04.x1 cDNA, 3' end /clone=IMAGE:2421127
118D6	40	161	AI025427	Hs.230752	6.00E-37	1	ow27g06.s1 cDNA, 3' end /clone=IMAGE:1648090
462H6	305	437	AI087055	Hs.230805	3.00E-67	1	oy70c09.x1 cDNA, 3' end /clone=IMAGE:1671184
107C11	93	240	AI796419	Hs.230939	1.00E-40	1	wj17f02.x1 cDNA, 3' end /clone=IMAGE:2403099
591A1	65	316	AA767883	Hs.231154	7.00E-59	4	oa30h07.s1 cDNA, 3' end /clone=IMAGE:1306525
471B3	177	519	BE407125	Hs.231510	1.00E-166	1	601301818F1 cDNA, 5' end /clone=IMAGE:3636412
64G11	609	950	AL542592	Hs.231816	1.00E-166	1	AL542592 cDNA /clone=CS0DE012YA05-(5-prime)
108G1	1	210	AW006867	Hs.231987	1.00E-109	1	ws15d07.x1 cDNA, 3' end /clone=IMAGE:2497261
115F3	44	185	AW016002	Hs.232000	7.00E-75	2	UI-H-B10p-abh-h-06-0-UI.s1 cDNA, 3' end /clo
138A6	4771	5194	D15050	Hs.232068	0	1	transcription factor AREB6, complete cds /cd
472A6	311	497	BF195579	Hs.232257	1.00E-78	1	7n85c03.x1 cDNA, 3' end /clone=IMAGE:3571205
111A7	285	463	AW026667	Hs.233261	1.00E-41	1	wv15d09.x1 cDNA, 3' end /clone=IMAGE:2529617
67G8	292	560	BE719483	Hs.233383	4.00E-94	3	MR1-HT0858-020800-001-c06 /gb=BE719483
123B11	180	351	AW006045	Hs.233560	5.00E-82	1	wz81b09.x1 cDNA, 3' end /clone=IMAGE:2565209
472E3	1	319	AW027530	Hs.233564	1.00E-180	1	wv74c06.x1 cDNA, 3' end /clone=IMAGE:2535274
36F11	943	1896	Z85996	Hs.233750	0	6	DNA sequence from PAC 431A14 on chromosome 6p21. Conta
184G6	49	491	BF694761	Hs.233936	0	9	602080851F2 cDNA, 5' end /clone=IMAGE:4245133
599C7	12	540	NM_006471	Hs.233936	0	55	myosin, light polypeptide, regulatory, non-s
156B4	405	774	AF054185	Hs.233952	1.00E-164	1	proteasome subunit HSPC complete cds /c
595G5	85	315	NM_002792	Hs.233952	1.00E-126	1	proteasome (prosome, macropain) subunit, alp
67F5	108	556	AK000654	Hs.234149	0	1	FLJ20647 fis, clone KAT02147 /cds=(90,836
591B6	1	555	NM_017918	Hs.234149	0	6	hypothetical protein FLJ20647 (FLJ20647), mR
111B7	1887	2217	AK023204	Hs.234265	1.00E-120	1	cDNA FLJ13142 fis, clone NT2RP3003212, modera
72F6	314	2581	AL035071	Hs.234279	0	2	DNA sequence from clone 1085F17 on chromosome 20q11.1
514H4	2105	2523	NM_012325	Hs.234279	0	1	microtubule-associated protein, RP/EB family
599A10	1	1163	NM_002300	Hs.234489	0	30	lactate dehydrogenase B (LDHB), mRNA /cds=(84
163A8	470	1153	X13794	Hs.234489	0	4	lactate dehydrogenase B gene exon 1 and (EC 1.1.1.
125E5	31	465	NM_000978	Hs.234518	1.00E-117	2	ribosomal protein L23 (RPL23), mRNA /cds=(25,4

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

471B1	1499	2033	L05148	Hs.234569 0	1	protein tyrosine kinase related mRNA sequence /cds=UN
466D7	1050	1402	NM_013451	Hs.234680 0	1	fer-1 (C.elegans)-like 3 (myoferlin) (FER1L3)
108B11	407	742	X14008	Hs.234734 0	1	lysozyme gene (EC 3.2.1.17) /cds=(82,474) /gb=X14008
476A12	3	440	AI076222	Hs.235042 0	2	oy65b09.x1 cDNA, 3' end /clone=IMAGE:1670681
464H7	994	2425	AL157426	Hs.235390 1.00E-22	1	mRNA; cDNA DKFZp761B101 (from clone DKFZp761B1
472F2	2203	2431	AK024137	Hs.235498 7.00E-97	1	cDNA FLJ14075 fis, clone HEMBB1001905, weakly
63C7	1159	1751	AK000260	Hs.235712 0	1	FLJ20253 fis, clone COLF6895 /cds=UNKNOWN
73C8	39	485	AI379474	Hs.235823 0	1	tc57g08.x1 cDNA, 3' end /clone=IMAGE:2068766
590H8	182	449	AA020845	Hs.235883 1.00E-145	3	ze64a07.r1 cDNA, 5' end /clone=IMAGE:363732 /
182H3	468	2009	NM_001535	Hs.235887 1.00E-119	5	HMT1 (hnRNP methyltransferase, S. cerevisiae)
119B12	253	596	NM_003075	Hs.236030 0	1	SWI/SNF related, matrix associated, actin dep
461C5	654	1112	AK026410	Hs.236449 0	1	cDNA: FLJ22757 fis, clone KAI0803 /cds=(92,24
182G3	514	2817	AK023223	Hs.236494 0	2	FLJ13161 fis, clone NT2RP3003589, highly
469G7	857	1336	AK026359	Hs.236744 0	1	cDNA: FLJ22706 fis, clone HSI13163 /cds=UNKNOW
592A9	1522	1888	NM_020135	Hs.236828 0	1	putative helicase RUVBL (LOC56897), mRNA /cds
177A1	1260	1704	AK001514	Hs.236844 1.00E-170	1	FLJ10652 fis, clone NT2RP2005886 /cds=(50
594G2	916	1537	NM_018169	Hs.236844 0	2	hypothetical protein FLJ10652 (FLJ10652), mR
98D10	1681	1964	NM_006947	Hs.237825 9.00E-36	1	signal recognition particle 72kD (SRP72), mRN
72C7	36	1214	M29696	Hs.237868 0	2	Interleukin-7 receptor (IL-7) mRNA, complete cds /cd
591B10	577	1658	NM_002185	Hs.237868 0	9	interleukin 7 receptor (IL7R), mRNA /cds=(22,1
109G2	16	405	AF116682	Hs.238205 0	1	PRO2013 mRNA, complete cds /cds=(135,380) /gb
41E1	2163	2733	U60805	Hs.238648 0	1	oncostatin-M specific receptor beta subunit (OSMRB)
599C11	508	1734	AK026110	Hs.238707 0	5	cDNA: FLJ22457 fis, clone HRC09925 /cds=(56,14
143E8	2	595	AV700542	Hs.238730 1.00E-177	6	AV700542 cDNA, 3' end /clone=GKCAFD05 /clone_
596C11	77	658	AW955090	Hs.238954 0	5	EST367160 cDNA /gb=AW955090 /gl=8144773 /ug=
169C7	1371	1634	AY004255	Hs.238990 1.00E-148	1	cdk inhibitor p27KIP1 mRNA, complete cds /cds=
173C1	1599	1859	BC001971	Hs.238990 1.00E-146	1	Similar to cyclin-dependent kinase inhibitor
458B5	1539	1809	AL136828	Hs.238996 1.00E-131	1	mRNA; cDNA DKFZp434K0427 (from clone DKFZp434K
591H9	6104	6559	AL157902	Hs.239114 0	1	DNA sequence from clone RP4-675C20 on chromosome 1p13
512G4	231	2376	NM_005746	Hs.239138 0	61	pre-B-cell colony-enhancing factor (PBEF), m
53D11	935	2053	U02020	Hs.239138 0	15	pre-B cell enhancing factor (PBEF) mRNA, complete cds
38B7	2187	2263	AK025021	Hs.239189 1.00E-36	1	FLJ21368 fis, clone COL03056, highly sim
458E10	90	622	NM_016533	Hs.239208 0	1	ninjurin 2 (NINJ2), mRNA /cds=(56,484) /gb=NM
184G10	1608	2056	AK026535	Hs.239307 0	1	FLJ22882 fis, clone KAT03587, highly sim
194D9	1544	1683	NM_003680	Hs.239307 4.00E-57	1	tyrosyl-tRNA synthetase (YARS), mRNA /cds=(0,
110C7	450	1216	AF246221	Hs.239625 0	4	transmembrane protein BRI mRNA, complete cds
599G9	446	1205	NM_021999	Hs.239625 0	13	integral membrane protein 2B (ITM2B), mRNA /cd
515E4	1404	1671	NM_014515	Hs.239720 1.00E-132	1	CCR4-NOT transcription complex, subunit 2 (C
115H10	1124	2079	BC000105	Hs.239760 0	2	Similar to CG14740 gene product, clone MGC:25
466E3	605	923	NM_005301	Hs.239891 1.00E-164	2	G protein-coupled receptor 35 (GPR35), mRNA /
52B5	993	1243	AJ223075	Hs.239894 1.00E-106	1	for TRIP protein /cds=(178,2532) /gb=AJ22
171E10	88	399	AW002624	Hs.240077 1.00E-145	1	wu60d10.x1 cDNA, 3' end /clone=IMAGE:990854 /
75C5	325	1604	AK027191	Hs.240443 0	8	FLJ23538 fis, clone LNG08010, highly sim
597D3	1134	1792	BC001255	Hs.240770 0	1	nuclear cap binding protein subunit 2, 20kD,
98A11	596	6834	NM_005385	Hs.241493 0	10	natural killer-tumor recognition sequence (N
98C10	1580	2204	AK027187	Hs.241507 0	40	cDNA: FLJ23534 fis, clone LNG06974, highly sim
463E8	324	846	AF047002	Hs.241520 0	1	transcriptional coactivator ALY mRNA, partia
514G6	802	1238	NM_012392	Hs.241531 0	3	peflin (PEF), mRNA /cds=(12,866) /gb=NM_01239

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

177G4	1375	1887	AF099149	Hs.241558 0	1	TRIAD1 type I mRNA, complete cds /cds=(144,1625
110E4	1320	1937	AK021704	Hs.241567 0	1	FLJ11642 fis, clone HEMBA1004356, highly
513B12	700	1447	NM_016839	Hs.241567 0	3	RNA binding motif, single stranded interacting
500G10	910	1249	NM_000594	Hs.241570 0	1	tumor necrosis factor (TNF superfamily, membe
514B6	735	1032	NM_018630	Hs.241576 1.00E-155	1	hypothetical protein PRO2577 (PRO2577), mRNA
590H9	61	251	NM_016200	Hs.241578 1.00E-104	1	U6 snRNA-associated Sm-like protein LSM8 (LOC
50A6	200	311	AK026704	Hs.242868 3.00E-57	3	FLJ23051 fis, clone LNG02642 /cds=UNKNOWN
104C10	199	353	AA424812	Hs.243029 2.00E-74	1	zw04b02.s1 cDNA, 3' end /clone=IMAGE:768267 /
72G4	182	415	AW081232	Hs.243321 1.00E-99	4	xc22a08.x1 cDNA, 3' end /clone=IMAGE:2585030
521D12	32	287	AW102836	Hs.243457 6.00E-96	1	xd38h12.x1 cDNA, 3' end /clone=IMAGE:2596103
102F3	79	157	W45552	Hs.243720 4.00E-26	1	zc26e07.s1 cDNA, 3' end /clone=IMAGE:323460 /
56D6	193	454	M97856	Hs.243886 1.00E-122	1	histone-binding protein mRNA, complete cds /c
595D8	25	495	NM_002482	Hs.243886 0	1	nuclear autoantigenic sperm protein (histone-
46G5	2137	2661	AK000745	Hs.243901 0	1	cDNA FLJ20738 fis, clone HEP08257
						/cds=UNKNOWN
477D4	141	250	AI394001	Hs.244666 4.00E-51	1	tg06d04.x1 cDNA, 3' end /clone=IMAGE:2107975
139B7	50	235	AW078847	Hs.244816 4.00E-32	2	xb18g07.x1 cDNA, 3' end /clone=IMAGE:2576700
472C4	74	464	AW139918	Hs.245138 0	1	UI-H-BI1-eee-d-05-0-UI.s1 cDNA, 3' end /clon
459F7	45	229	AW080951	Hs.245616 7.00E-58	1	xc28c10.x1 cDNA, 3' end /clone=IMAGE:2585586
100A6	41	1795	L22009	Hs.245710 1.00E-143	3	hnRNP H mRNA, complete cds /cds=(72,1421)
						/gb=L22009
592G8	41	1798	NM_005520	Hs.245710 0	6	heterogeneous nuclear ribonucleoprotein H1
71G4	382	583	AL136607	Hs.245798 1.00E-104	1	mRNA; cDNA DKFZp564I0422 (from clone DKFZp564
118B9	4495	5528	AK024391	Hs.246112 0	4	cDNA FLJ14329 fis, clone PLACE4000259, highly
471E5	148	464	AI568725	Hs.246299 1.00E-177	1	th15a01.x1 cDNA, 3' end /clone=IMAGE:2118312
464D11	26	526	N28843	Hs.246358 0	1	yx59d10.r1 cDNA, 5' end /clone=IMAGE:266035 /
40H7	550	1108	S57235	Hs.246381 0	1	CD68=110kda transmembrane glycoprotein [human,
						promonocy
471E12	152	507	AW117189	Hs.246494 1.00E-149	1	xd83f08.x1 cDNA, 3' end /clone=IMAGE:2604231
479C1	47	345	AV739961	Hs.246796 1.00E-140	1	AV739961 cDNA, 5' end /clone=CBFBRA10 /clone_
472C9	43	400	BF796642	Hs.246818 0	1	602259846F1 cDNA, 5' end /clone=IMAGE:4343171
47F11	2	227	AB015856	Hs.247433 1.00E-123	1	for ATF6, complete cds /cds=(68,2080) /gb
179H9	12	379	AL031313	Hs.247783 1.00E-111	1	DNA sequence from clone 581F12 on chromosome
						Xq21. Co
167A9	5	352	Z00013	Hs.247792 1.00E-163	5	H.sapiens germline gene for the leader peptide and
						variable
72B8	402	672	L15006	Hs.247824 1.00E-139	2	Ig superfamily CTLA-4 mRNA, complete cds /cds=
488H10	135	672	NM_005214	Hs.247824 1.00E-146	5	cytotoxic T-lymphocyte-associated protein 4
188G8	1	255	NM_002991	Hs.247838 1.00E-135	1	small inducible cytokine subfamily A (Cys-Cys
153D11	401	720	AL049545	Hs.247877 1.00E-133	2	DNA sequence from clone 263J7 on chromosome
						6q14.3-15
44D2	42	448	AL035604	Hs.247894 1.00E-133	1	DNA sequence from clone 38C16 on chromosome
						6q22.33-2
180B7	10	271	L21961	Hs.247947 4.00E-72	1	Ig rearranged lambda-chain mRNA, subgroup VL3, V-
						J re
110B11	311	803	U08626	Hs.247984 0	1	glutamine synthetase pseudogene /cds=(0,899) /gb=U
74G5	361	965	X14798	Hs.248109 0	1	DNA for c-ets-1 proto-oncogene /cds=(278,1603) /gb=
60H10	214	527	AW150084	Hs.248657 1.00E-99	3	xg36f03.x1 cDNA, 3' end /clone=IMAGE:2629661
64E2	329	536	BF512500	Hs.248689 1.00E-112	1	UI-H-BI3-aW-h-10-0-UI.s1 cDNA, 3' end /clon
470C6	278	470	AI832183	Hs.249031 1.00E-103	1	wh80g09.x1 cDNA, 3' end /clone=IMAGE:2387104
146A9	1145	1422	S63912	Hs.249247 1.00E-113	1	D10S102=FBRNP [human, fetal brain, mRNA, 3043
						nt] /cds={30,
519E8	37	628	NM_002136	Hs.249495 0	1	heterogeneous nuclear ribonucleoprotein A1
458C7	2232	2520	NM_000964	Hs.250505 1.00E-163	1	retinoic acid receptor, alpha (RARA), mRNA /cd
476A8	1060	1601	AF308285	Hs.250528 0	1	serologically defined breast cancer antigen N

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

123D7	436	2077	AL157499	Hs.250535	1.00E-153	3	mRNA; cDNA DKFZp434N2412 (from clone DKFZp434)
477A10	285	370	AW291304	Hs.250600	2.00E-34	1	UI-H-BI2-agg-b-11-0-UI.s1 cDNA, 3' end /clon
172G12	726	1598	AF182420	Hs.250619	0	6	MDS019 (MDS019) mRNA, complete cds /cds=(231,1
167E11	11633	13714	NM_016252	Hs.250646	1.00E-180	2	baculoviral IAP repeat-containing 6 (BIRC6),
591E4	198	714	NM_002823	Hs.250655	4.00E-99	3	prothymosin, alpha (gene sequence 28) (PTMA),
40D9	2289	3010	M95585	Hs.250692	0	1	hepatic leukemia factor (HLF) mRNA, complete cds /cds
110D9	2336	3259	NM_003144	Hs.250773	0	3	signal sequence receptor, alpha (translocon-a
166A3	1	302	AF103458	Hs.250806	6.00E-93	2	isolate donor N clone N168K immunoglobulin kap
110C12	629	1228	M35416	Hs.250811	0	1	GTP-binding protein (RALB) mRNA, complete cds /cds=(1
458D12	1136	1714	AY007158	Hs.250820	0	1	clone CDABP0113 mRNA sequence /cds=UNKNOWN /g
177C5	658	823	J02621	Hs.251064	3.00E-32	1	non-histone chromosomal protein HMG-14 mRNA, complet
126A2	658	1009	NM_004965	Hs.251064	0	3	high-mobility group (nonhistone chromosomal)
523G1	1	337	AE000660	Hs.251465	1.00E-178	2	T-cell receptor alpha delta locus from bases 5
40G1	4	781	X72308	Hs.251526	0	3	for monocyte chemotactic protein-3 (MCP-
188G7	1	1030	NM_002789	Hs.251531	0	3	proteasome (prosome, macropain) subunit, alp
61E12	578	2275	NM_006537	Hs.251636	0	2	ubiquitin specific protease 3 (USP3), mRNA /cd
38B10	995	1211	AK026594	Hs.251653	1.00E-107	1	FLJ22941 fis, clone KAT08078, highly sim
70C3	2022	2405	X52142	Hs.251871	0	1	CTP synthetase (EC 6.3.4.2) /cds=(75,1850) /
177E9	49	406	S80990	Hs.252136	1.00E-125	2	ficollin [human, uterus, mRNA, 1736 nt] /cds=(532,1512) /gb
50F8	1841	2048	AK026712	Hs.252259	1.00E-114	15	FLJ23059 fis, clone LNG03912 /cds=(41,16
585E12	16	194	AI383340	Hs.252300	1.00E-63	1	tc76g05.x1 cDNA, 3' end /clone=IMAGE:2070584
181E12	22	99	BE963374	Hs.252338	4.00E-30	1	601657137R1 cDNA, 3' end /clone=IMAGE:3866193
477H4	290	451	AI524022	Hs.252359	8.00E-87	1	tg99f02.x1 cDNA, 3' end /clone=IMAGE:2116923
188G11	95	700	NM_007104	Hs.252574	0	2	ribosomal protein L10a (RPL10A), mRNA /cds=(1
471H9	1	285	AV706014	Hs.252580	1.00E-145	1	AV706014 cDNA, 5' end /clone=ADBAOB12 /clone_
134F9	1358	1464	AL359626	Hs.252588	5.00E-50	1	mRNA; cDNA DKFZp564F172 (from clone DKFZp564F1
597B10	13	279	NM_000981	Hs.252723	1.00E-149	28	ribosomal protein L19 (RPL19), mRNA /cds=(28,6
120D7	962	1674	NM_006054	Hs.252831	0	5	reticulon 3 (RTN3), mRNA /cds=(124,834) /gb=N
593B10	102	467	AW191929	Hs.252989	7.00E-93	1	.xl77c10.x1 cDNA, 3' end /clone=IMAGE:2680722
482C11	32	122	AW195119	Hs.253151	3.00E-33	1	xn66b07.x1 cDNA, 3' end /clone=IMAGE:2699413
472C6	34	279	AW204029	Hs.253384	1.00E-137	1	UI-H-BI1-aen-d-02-0-UI.s1 cDNA, 3' end /clon
472D4	27	440	AW205624	Hs.253502	0	1	UI-H-BI1-afr-e-01-0-UI.s1 cDNA, 3' end /clon
472D1	120	362	BF750565	Hs.253550	1.00E-133	1	RC1-BN0410-261000-014-f11 cDNA /gb=BF750565
480F11	367	558	AW237483	Hs.253820	1.00E-105	1	xm72e01.x1 cDNA, 3' end /clone=IMAGE:2689752
472B5	35	363	AI432340	Hs.254006	1.00E-169	1	tg54e06.x1 cDNA, 3' end /clone=IMAGE:2112610
75E5	1	904	M14328	Hs.254105	0	5	alpha enolase mRNA, complete cds /cds=(94,1398) /gb=
592A12	1	1100	NM_001428	Hs.254105	0	5	enolase 1, (alpha) (ENO1), mRNA /cds=(94,1398)
472D10	183	414	AI364936	Hs.255100	1.00E-126	1	qz23c12.x1 cDNA, 3' end /clone=IMAGE:2027734
479H9	43	184	AW292772	Hs.255119	2.00E-70	1	UI-H-BWO-aij-d-03-0-UI.s1 cDNA, 3' end /clon
480A2	18	523	AW293267	Hs.255178	0	1	UI-H-BWO-aij-e-10-0-UI.s1 cDNA, 3' end /clon
480B7	16	298	AW293895	Hs.255249	1.00E-116	1	UI-H-BWO-ain-f-10-0-UI.s1 cDNA, 3' end /clon
479H11	23	202	AW293955	Hs.255255	3.00E-79	1	UI-H-BWO-aik-d-05-0-UI.s1 cDNA, 3' end /clon
480A4	415	598	AW294681	Hs.255336	5.00E-66	1	UI-H-BWO-aij-g-10-0-UI.s1 cDNA, 3' end /clon
480A7	223	427	AW294695	Hs.255339	1.00E-103	1	UI-H-BWO-aim-a-02-0-UI.s1 cDNA, 3' end /clon
480A8	26	338	BF514247	Hs.255340	1.00E-167	1	UI-H-BW1-ani-h-09-0-UI.s1 cDNA, 3' end /clon
480C12	239	483	AW295088	Hs.255389	1.00E-124	1	UI-H-BWO-ait-d-09-0-UI.s1 cDNA, 3' end /clon
480F9	1	423	BF531016	Hs.255390	0	1	602072345F1 cDNA, 5' end /clone=IMAGE:4215251
480B3	68	377	AW295610	Hs.255446	1.00E-161	1	UI-H-BWO-aip-c-03-0-UI.s1 cDNA, 3' end /clon

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

460H5	44	427	AA455707	Hs.255452	1.00E-161	1	aa22d09.r1 cDNA, 5' end /clone=IMAGE:814001 /
480B12	132	212	AW295664	Hs.255454	7.00E-39	1	UI-H-BW0-aij-g-12-0-UI.s1 cDNA, 3' end /clon
472E7	163	489	AI439645	Hs.255490	1.00E-166	1	tc91e08.x1 cDNA, 3' end /clone=IMAGE:2073542
480D12	84	258	AW296005	Hs.255492	8.00E-90	1	UI-H-BW0-aij-b-01-0-UI.s1 cDNA, 3' end /clon
480F4	34	464	AW296063	Hs.255501	0	1	UI-H-BW0-aij-g-08-0-UI.s1 cDNA, 3' end /clon
480D5	18	404	AW296490	Hs.255554	0	2	UI-H-BW0-aij-f-08-0-UI.s1 cDNA, 3' end /clon
480E1	95	379	AW296532	Hs.255559	1.00E-101	1	UI-H-BW0-aij-b-07-0-UI.s1 cDNA, 3' end /clon
480E5	17	326	AW296545	Hs.255560	1.00E-128	1	UI-H-BW0-aij-c-11-0-UI.s1 cDNA, 3' end /clon
480F2	20	330	AW296730	Hs.255573	1.00E-160	1	UI-H-BW0-aij-f-12-0-UI.s1 cDNA, 3' end /clon
480G7	38	479	AW296797	Hs.255579	0	1	UI-H-BW0-aij-e-07-0-UI.s1 cDNA, 3' end /clon
480C9	19	274	AW297339	Hs.255637	1.00E-117	1	UI-H-BW0-aij-c-03-0-UI.s1 cDNA, 3' end /clon
480C4	70	191	AW297400	Hs.255647	1.00E-49	1	UI-H-BW0-aij-a-05-0-UI.s1 cDNA, 3' end /clon
480G5	17	242	AW297522	Hs.255661	2.00E-87	1	UI-H-BW0-aij-a-02-0-UI.s1 cDNA, 3' end /clon
480F10	230	560	AW294654	Hs.255687	0	1	UI-H-BW0-aij-d-10-0-UI.s1 cDNA, 3' end /clon
480G9	47	582	AW297813	Hs.255695	0	1	UI-H-BW0-aij-g-09-0-UI.s1 cDNA, 3' end /clon
480G10	31	453	AW297827	Hs.255697	0	1	UI-H-BW0-aij-h-11-0-UI.s1 cDNA, 3' end /clon
482G6	16	242	AW339651	Hs.255927	3.00E-78	1	he15g04.x1 cDNA, 3' end /clone=IMAGE:2919126
469B11	4	221	AW341086	Hs.256031	1.00E-99	1	xz92h04.x1 cDNA, 3' end /clone=IMAGE:2871703
140E7	2870	3589	M32315	Hs.256278	1.00E-84	2	tumor necrosis factor receptor mRNA, complete cds /cd
189H12	2839	3294	NM_001066	Hs.256278	0	2	tumor necrosis factor receptor superfamily, m
99H11	83	589	NM_005620	Hs.256290	0	4	S100 calcium-binding protein A11 (calgizzarin
58C7	1778	2264	AJ271747	Hs.256583	0	1	partial mRNA for double stranded RNA binding nu
482F4	373	628	AV719442	Hs.256959	1.00E-124	1	AV719442 cDNA, 5' end /clone=GLCBNA01 /clone_
482F5	8	377	AW440866	Hs.256961	1.00E-179	1	he05f02.x1 cDNA, 3' end /clone=IMAGE:2918139
482F8	191	315	AW440974	Hs.256971	2.00E-62	1	he06e12.x1 cDNA, 3' end /clone=IMAGE:2918254
479E7	136	567	AW444482	Hs.256979	0	2	UI-H-BI3-akb-e-05-0-UI.s1 cDNA, 3' end /clon
471H5	3	432	AI438957	Hs.257066	0	1	tc89b05.x1 cDNA, 3' end /clone=IMAGE:2073297
472G3	233	617	AW450350	Hs.257283	0	1	UI-H-BI3-akn-c-01-0-UI.s1 cDNA, 3' end /clon
472G11	112	338	AI809475	Hs.257466	1.00E-101	1	wh76d06.x1 cDNA, 3' end /clone=IMAGE:2386667
479F7	22	421	AW452467	Hs.257572	0	1	UI-H-BI3-als-e-09-0-UI.s1 cDNA, 3' end /clon
479G9	95	304	AW452513	Hs.257579	1.00E-81	1	UI-H-BW1-ame-b-03-0-UI.s1 cDNA, 3' end /clon
479F11	16	329	AW453021	Hs.257640	1.00E-163	1	UI-H-BW1-ama-c-02-0-UI.s1 cDNA, 3' end /clon
479G4	45	441	AW453044	Hs.257646	0	1	UI-H-BW1-ama-e-01-0-UI.s1 cDNA, 3' end /clon
482F9	11	256	AW467193	Hs.257667	1.00E-108	1	he07a04.x1 cDNA, 3' end /clone=IMAGE:2918286
482G2	9	271	AW467400	Hs.257680	1.00E-112	1	he10f11.x1 cDNA, 3' end /clone=IMAGE:2918637
482G8	108	428	AW467437	Hs.257682	1.00E-177	1	he17d05.x1 cDNA, 3' end /clone=IMAGE:2919273
482G12	1	417	AW467501	Hs.257687	0	1	he19e06.x1 cDNA, 3' end /clone=IMAGE:2919490
482H4	39	143	AW467746	Hs.257695	3.00E-51	1	he23d05.x1 cDNA, 3' end /clone=IMAGE:2919849
482H6	1	116	AW467863	Hs.257705	2.00E-59	1	he27c04.x1 cDNA, 3' end /clone=IMAGE:2920230
482H7	1	321	AW467864	Hs.257706	1.00E-156	1	he27c05.x1 cDNA, 3' end /clone=IMAGE:2920232
482H9	1	112	AW467992	Hs.257709	1.00E-47	1	he30b01.x1 cDNA, 3' end /clone=IMAGE:2920489
483A2	20	429	AW468207	Hs.257716	0	1	he34a12.x1 cDNA, 3' end /clone=IMAGE:2920894
483A9	11	373	AW468431	Hs.257727	0	1	he37h11.x1 cDNA, 3' end /clone=IMAGE:2921253
483B2	2	241	AW468621	Hs.257743	1.00E-119	1	he42e03.x1 cDNA, 3' end /clone=IMAGE:2921692
75B1	157	246	BE531180	Hs.258494	5.00E-44	1	601278313F1 cDNA, 5' end /clone=IMAGE:3610443
585F6	2200	4106	AL136549	Hs.258503	0	8	mRNA: cDNA DKFZp761112121 (from clone DKFZp761
169E2	5186	5415	U20489	Hs.258609	1.00E-119	2	glomerular epithelial protein 1 (GLEPP1) comple
127A5	2142	2477	AB037790	Hs.258730	1.00E-177	1	mRNA for KIAA1369 protein, partial cds /cds=(0
171B12	4202	4314	Y10129	Hs.258742	4.00E-45	2	mybpc3 gene /cds=(33,3857) /gb=Y10129 /gi=20583
75B7	531	682	L14542	Hs.258850	3.00E-81	1	lectin-like type II integral membrane protein (NKG2-E
471G5	344	473	AI144328	Hs.259084	3.00E-61	1	oy84g04.x1 cDNA, 3' end /clone=IMAGE:1672566
479B7	73	307	AF161364	Hs.259683	1.00E-123	1	HSPC101 mRNA, partial cds /cds=(0,556) /gb=AF
146B11	1942	2174	AL136842	Hs.260024	8.00E-92	1	DKFZp434A0530 (from clone DKFZp434A

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

584A1	1085	1470	AL022398	Hs.261373	1.00E-166	1	DNA sequence from PAC 434O14 on chromosome 1q32
148B1	119	817	X60656	Hs.261802	0	2	elongation factor 1-beta /cds=(95,772)
60G3	203	3170	NM_001634	Hs.262476	0	15	S-adenosylmethionine decarboxylase 1 (AMD1)
462E7	292	374	AW300868	Hs.262789	8.00E-40	1	xk07d09.x1 cDNA, 3' end /clone=IMAGE:2666033
56F11	33	234	BF243724	Hs.263414	4.00E-82	1	601877832F1 cDNA, 5' end /clone=IMAGE:4106359
119C5	2414	2664	NM_002108	Hs.263435	1.00E-137	1	histidine ammonia-lyase (HAL), mRNA /cds=(297
105A4	3225	3775	AK025774	Hs.264190	0	3	FLJ22121 fis, clone HEP18876, highly sim
469H1	369	576	AI380111	Hs.264298	1.00E-103	1	tf98a11.x1 cDNA, 3' end /clone=IMAGE:2107292
181A3	2434	2768	NM_002535	Hs.264981	1.00E-148	2	2'-5' oligoadenylate synthetase 2 (OAS2), tra
41B7	3209	3885	M59911	Hs.265829	0	1	integrin alpha-3 chain mRNA, complete cds /cds=(73,32
75F9	264	452	AW150944	Hs.265838	2.00E-96	1	xg42e09.x1 cDNA, 3' end /clone=IMAGE:2630248
99C3	2884	3155	AK000680	Hs.266175	0	2	cDNA FLJ20873 fis, clone KAlA4484 /cds=(104,14
598E12	2417	2894	AK026669	Hs.266940	0	2	cDNA: FLJ23016 fis, clone LNG00874 /cds=UNKNOWN
468B6	883	1515	NM_016569	Hs.267182	0	1	TBX3-iso protein (TBX3-iso), mRNA /cds=(116,1
115E11	1234	1713	AF271994	Hs.267288	0	1	dopamine responsive protein DRG-1 mRNA, compl
114A4	31	382	NM_024095	Hs.267400	1.00E-179	1	hypothetical protein MGC5540 (MGC5540), mRNA
166C7	1315	1919	AK001749	Hs.267604	0	2	FLJ10887 fis, clone NT2RP4002018, weakly
56A8	564	3624	AB033054	Hs.267690	0	3	for KIAA1228 protein, partial cds /cds=(0
70B10	229	2138	AK001471	Hs.268012	0	3	FLJ10609 fis, clone NT2RP2005276, highly
178D10	1831	2796	NM_012255	Hs.268555	0	2	5'-3' exoribonuclease 2 (XRN2), mRNA /cds=(68,
168B9	451	881	AF068235	Hs.268763	0	1	barrier-to-autointegration factor mRNA, com
465F2	91	433	AA613224	Hs.270264	0	1	no19d06.s1 cDNA, 3' end /clone=IMAGE:1101131
469E2	302	422	BE857296	Hs.270293	1.00E-57	1	7g27b01.x1 cDNA, 3' end /clone=IMAGE:3307657
465D10	284	405	AI270476	Hs.270341	4.00E-51	1	qu88e12.x1 cDNA, 3' end /clone=IMAGE:1979182
473F10	831	1096	AK021517	Hs.270557	1.00E-140	1	cDNA FLJ11455 fis, clone HEMBA1001497 /cds=UNK
193A10	458	563	AI818951	Hs.270614	5.00E-31	1	wj89e12.x1 cDNA, 3' end /clone=IMAGE:2410030
458E11	44	264	W03955	Hs.270717	1.00E-118	1	za62d04.r1 cDNA, 5' end /clone=IMAGE:297127 /
163C12	280	954	M30704	Hs.270833	1.00E-168	2	amphiregulin (AR) mRNA, complete cds, clones lambda-A
196F4	208	567	NM_001657	Hs.270833	1.00E-158	1	amphiregulin (schwannoma-derived growth fac
464G2	378	529	AW172850	Hs.270999	4.00E-77	1	xj04f02.x1 cDNA, 3' end /clone=IMAGE:2656251
464F5	131	476	AW572930	Hs.271264	0	1	hf17f07.x1 cDNA, 3' end /clone=IMAGE:2932165
41G6	458	880	Y16645	Hs.271387	0	1	for monocyte chemotactic protein-2 /cds=
464F2	139	220	AW975086	Hs.271420	2.00E-34	1	EST387192 cDNA /gb=AW975086 /gi=8166291 /ug=
178E10	961	1452	AK021715	Hs.271541	0	1	cDNA FLJ11653 fis, clone HEMBA1004538 /cds=UNK
129E1	73	441	NM_016049	Hs.271614	1.00E-136	1	CGI-112 protein (LOC51016), mRNA /cds=(158,78
40C9	4195	4949	X17033	Hs.271986	0	1	integrin alpha-2 subunit /cds=(48,3593) /gb
108E1	917	1331	NM_006811	Hs.272168	0	2	tumor differentially expressed 1 (TDE1), mRNA
155H10	232	715	AL021395	Hs.272279	1.00E-164	1	DNA sequence from clone RP1-269M15 on chromosome 20q1
159D3	38	238	AL034343	Hs.272295	1.00E-106	4	DNA sequence from clone RP1-108C2 on chromosome 6p12.
477C3	744	1166	AL133015	Hs.272307	0	2	mRNA; cDNA DKFZp434O2417 (from clone DKFZp434O
173D12	228	594	AL121934	Hs.272340	1.00E-140	5	DNA sequence from clone RP11-209A2 on chromosome 6. C
472D9	27	418	NM_016135	Hs.272398	0	1	transcription factor ets (TEL2), mRNA /cds=(7
465F9	1885	2345	NM_013351	Hs.272409	0	1	T-box 21 (TBX21), mRNA /cds=(211,1818) /gb=NM
41E11	1	277	NM_004167	Hs.272493	1.00E-113	1	small inducible cytokine subfamily A (Cys-Cys
462E11	8	528	NM_001503	Hs.272529	0	1	glycosylphosphatidylinositol specific phos
104C6	210	327	AE000659	Hs.272550	5.00E-61	1	T-cell receptor alpha delta locus from bases 2
596A3	411	1208	NM_013392	Hs.272736	0	5	nuclear receptor binding protein (NRBP), mRNA
75C2	1892	2188	AK000316	Hs.272793	1.00E-165	1	FLJ20309 fis, clone HEP07296 /cds=(41,127
58C6	1	956	NM_006009	Hs.272897	0	2	Tubulin, alpha, brain-specific (TUBA3), mRNA

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

190H8	3246	3771	AK024471	Hs.273230	1.00E-165	2	mRNA for FLJ00064 protein, partial cds /cds=(0
590E11	1512	1860	NM_014230	Hs.273307	1.00E-168	4	signal recognition particle 68kD (SRP68), mRN
588H2	696	1454	NM_000516	Hs.273385	0	3	guanine nucleotide binding protein (G protein)
165E9	3186	3695	NM_014871	Hs.273397	0	1	KIAA0710 gene product (KIAA0710), mRNA /cds=(
462A6	394	496	AA527312	Hs.273775	2.00E-42	1	ng36a08.s1 cDNA, 3' end /clone=IMAGE:936854 /
587F1	1763	1978	AL050353	Hs.274170	1.00E-112	1	mRNA; cDNA DKFZp564C0482 (from clone DKFZp564C
177E5	1448	1876	AK000765	Hs.274248	0	1	FLJ20758 fis, clone HEP01508 /cds=(464,13
59E7	1	301	AF151049	Hs.274344	1.00E-159	3	HSPC215 mRNA, complete cds /cds=(92,451) /gb=
174A6	931	1352	NM_004301	Hs.274350	0	1	BAF53 (BAF53A), mRNA /cds=(136,1425) /gb=NM_0
99E2	718	1391	NM_018477	Hs.274369	0	4	uncharacterized hypothalamus protein HARP11
117F6	3046	3478	AB037844	Hs.274396	0	2	mRNA for KIAA1423 protein, partial cds /cds=(0
52F3	1724	2342	NM_005346	Hs.274402	1.00E-149	48	heat shock 70kD protein 1 (HSPA1B), mRNA /cds=(
516B1	719	1026	NM_018975	Hs.274428	1.00E-161	2	TRF2-interacting telomeric RAP1 protein (RAP
104A1	1943	2396	AK002127	Hs.274439	0	1	FLJ11265 fis, clone PLACE1009158 /cds=(30
137D6	1697	1817	NM_001403	Hs.274466	8.00E-49	1	eukaryotic translation elongation factor 1 a
108D11	321	646	X16863	Hs.274467	1.00E-160	1	Fc-gamma RIII-1 cDNA for Fc-gamma receptor III-1 (CD
107F1	567	895	AF283771	Hs.274472	1.00E-168	1	clone TCBAP0774 mRNA sequence /cds=UNKNOWN /g
517B9	4	480	NM_002128	Hs.274472	0	3	high-mobility group (nonhistone chromosomal)
514C8	254	539	M12888	Hs.274474	1.00E-144	2	T-cell receptor germline beta-chain gene C-region C-
460G5	602	775	M12679	Hs.274485	3.00E-94	1	Cw1 antigen mRNA, complete cds /cds=(0,617) /gb=M1267
463G7	163	744	D90145	Hs.274535	0	4	LD78 beta gene /cds=(86,367) /gb=D90145 /gi=219907 /
472E10	277	391	AI393960	Hs.274851	6.00E-59	1	tg11d04.x1 cDNA, 3' end /clone=IMAGE:2108455
115A11	156	446	NM_014624	Hs.275243	1.00E-157	8	S100 calcium-binding protein A6 (calcyclin) (
102C6	23	448	AA610514	Hs.275611	1.00E-161	1	np93h02.s1 /clone=IMAGE:1133907 /gb=AA6
160E3	24	304	AA757952	Hs.275773	1.00E-74	3	zg49e07.s1 3' end /clone=IMAGE:396708 /
500B8	26	536	NM_022551	Hs.275865	0	3	ribosomal protein S18 (RPS18), mRNA /cds=(46,5
522D9	184	593	NM_001959	Hs.275959	0	1	eukaryotic translation elongation factor 1 b
151H4	1	196	AA984890	Hs.276063	5.00E-58	1	am62e06.s1 cDNA, 3' end /clone=IMAGE:1576642
476B10	362	615	BF510670	Hs.276341	1.00E-116	1	UI-H-BI4-aof-b-08-0-UI.s1 cDNA, 3' end /clon
144F10	73	279	AI318342	Hs.276662	8.00E-57	1	ta73c09.x1 3' end /clone=IMAGE:2049712
593G1	17	88	BE747210	Hs.276718	2.00E-26	1	601580926F1 cDNA, 5' end /clone=IMAGE:3929430
473E3	205	488	AI380791	Hs.276766	1.00E-144	1	tg04b12.x1 cDNA, 3' end /clone=IMAGE:2107775
598A2	72	427	NM_001803	Hs.276770	0	19	CDW52 antigen (CAMPATH-1 antigen) (CDW52), mR
170H2	83	432	X62466	Hs.276770	0	1	CAMPATH-1 (CDw52) antigen /cds=(33,218)
464F7	2	454	AI492640	Hs.276903	0	2	qz18a06.x1 cDNA, 3' end /clone=IMAGE:2021842
464E5	102	191	AI493726	Hs.276907	3.00E-44	2	qz12f08.x1 cDNA, 3' end /clone=IMAGE:2021319
50B5	42	308	AI581383	Hs.276988	5.00E-77	1	to71c02.x1 cDNA, 3' end /clone=IMAGE:2183714
468C6	40	279	AI740667	Hs.277201	1.00E-64	1	wg07b07.x1 cDNA, 3' end /clone=IMAGE:2384373
111D12	1	562	AI749435	Hs.277224	1.00E-118	9	at24b04.x1 cDNA, 3' end /clone=IMAGE:2356015
459B4	176	367	AI811065	Hs.277293	2.00E-38	1	tr03f05.x1 cDNA, 3' end /clone=IMAGE:2217249
477H3	6227	6584	NM_013449	Hs.277401	1.00E-132	1	bromodomain adjacent to zinc finger domain, 2A
54A8	34	301	AW050975	Hs.277672	3.00E-48	1	wz25f04.x1 cDNA, 3' end /clone=IMAGE:2559103
459E4	1532	2061	NM_006389	Hs.277704	0	1	oxygen regulated protein (150kD) (ORP150), mR
109B6	3281	3721	U65785	Hs.277704	0	1	150 kDa oxygen-regulated protein ORP150 mRNA, complet
524H7	2979	3350	NM_005899	Hs.277721	0	1	membrane component, chromosome 17, surface ma
472F10	425	556	AW082714	Hs.277738	5.00E-69	1	xb61f07.x1 cDNA, 3' end /clone=IMAGE:2580805
176D1	113	269	AW262728	Hs.277994	6.00E-32	1	xq94a12.x1 cDNA, 3' end /clone=IMAGE:2758270
464H4	2138	3563	NM_016733	Hs.278027	0	9	LIM domain kinase 2 (LIMK2), transcript varian

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

145C9	533	1446	D13316	Hs.278238 0	3	transcription factor, E4TF1-47, complete cds
161C3	339	560	NM_002041	Hs.278238 1.00E-123	1	GA-binding protein transcription factor, bet
74C9	345	1048	AK026632	Hs.278242 0	3	FLJ22979 fis, clone KAT11379, highly sim
59E2	255	782	L24804	Hs.278270 0	2	(p23) mRNA, complete cds /cds=(232,714) /gb=L24804 /
521H10	8	461	AI720536	Hs.278302 1.00E-114	4	as83c02.x1 cDNA, 3' end /clone=IMAGE:2335298
118C6	830	1104	NM_001995	Hs.278333 1.00E-148	1	fatty-acid-Coenzyme A ligase, long-chain 1 (
104E9	248	417	AF151054	Hs.278429 2.00E-78	1	HSPC220 mRNA, complete cds /cds=(288,818) /gb
594F10	379	1760	NM_016520	Hs.278429 0	4	hepatocellular carcinoma-associated antigen
126D11	7374	7716	NM_006289	Hs.278559 0	1	talin (TLN), mRNA /cds=(126,7751) /gb=Nm_0062
589E6	3078	5778	NM_003105	Hs.278571 0	3	sortilin-related receptor, L(DLR class) A re
102C10	669	1180	D14041	Hs.278573 0	1	for H-2K binding factor-2, complete cds /
526H8	167	4709	NM_015874	Hs.278573 0	5	H-2K binding factor-2 (LOC51580), mRNA /cds=(
120A12	732	1305	AB029031	Hs.278586 0	1	mRNA for KIAA1108 protein, partial cds /cds=(0
126F4	3138	3515	AF035737	Hs.278589 0	2	general transcription factor 2-I (GTF2I) mRNA
40A7	3179	3864	U24578	Hs.278625 0	1	RP1 and complement C4B precursor (C4B) genes, partial
50C4	4401	4581	AB002334	Hs.278671 2.00E-60	1	KIAA0336 gene, complete cds /cds=(253,5004)
106E12	104	1222	D50525	Hs.278693 0	11	TI-227H /cds=UNKNOWN /gb=D50525 /gl=1167502
467E10	168	542	BE973840	Hs.278704 1.00E-145	1	601680547F1 cDNA, 5' end /clone=IMAGE:3951154
75F2	1121	1772	J04755	Hs.278718 0	37	ferritin H processed pseudogene, complete cds /cds=UN
170E12	204	843	AL121735	Hs.278736 0	2	Isoform of human GTP-binding protein G25K /cds=(104,679) /
103F4	589	926	NM_019597	Hs.278857 0	1	heterogeneous nuclear ribonucleoprotein H2
37F8	3	519	U01923	Hs.278857 0	1	BTK region clone ftp-3 mRNA /cds=UNKNOWN /gb=U01923 /
66B11	2195	2512	AB029027	Hs.279039 1.00E-172	1	for KIAA1104 protein, complete cds /cds=(
171G3	219	815	AK027258	Hs.279040 0	2	FLJ23605 fis, clone LNG15982, highly sim
172E12	18	95	NM_014065	Hs.279040 4.00E-27	2	HT001 protein (HT001), mRNA /cds=(241,1203) /
596A12	1	225	BE220869	Hs.279231 2.00E-78	1	hu01g02.x1 cDNA, 3' end /clone=IMAGE:3165362
61H2	20	220	BE279328	Hs.279429 2.00E-32	3	601157666F1 cDNA, 5' end /clone=IMAGE:3504328
458E12	1835	2473	NM_014160	Hs.279474 0	1	HSPC070 protein (HSPC070), mRNA /cds=(331,158
110F3	983	1614	NM_016160	Hs.279518 0	1	amyloid precursor protein homolog HSD-2 (LOC5
37E5	39	732	AK001403	Hs.279521 0	1	FLJ10541 fis, clone NT2RP2001381 /cds=(3
66D6	6	463	BE502919	Hs.279522 0	1	hz81b08.x1 cDNA, 3' end /clone=IMAGE:3214359
123A11	411	903	NM_013237	Hs.279529 0	2	px19-like protein (PX19), mRNA /cds=(176,835)
185A10	809	1324	NM_002817	Hs.279554 0	1	proteasome (prosome, macropain) 26S subunit,
472H9	88	543	AL582047	Hs.279555 0	1	AL582047 cDNA /clone=CS0DL003YD01-(3-prime)
41A2	1	326	AK000575	Hs.279581 1.00E-162	1	FLJ20568 fis, clone REC00775 /cds=(6,422)
135F4	648	935	NM_016283	Hs.279586 1.00E-110	1	adrenal gland protein AD-004 (LOC51578), mRNA
69D9	841	935	D16217	Hs.279607 9.00E-40	1	calpastatin, complete cds /cds=(162,2288) /
116B6	938	1562	NM_001750	Hs.279607 0	1	calpastatin (CAST), mRNA /cds=(66,1358) /gb=
473F4	6847	7401	NM_007329	Hs.279611 0	1	deleted in malignant brain tumors 1 (DMBT1), tr
123C7	2488	2684	NM_021644	Hs.279681 1.00E-105	1	heterogeneous nuclear ribonucleoprotein H3
586E2	357	633	NM_014169	Hs.279761 3.00E-97	1	HSPC134 protein (HSPC134), mRNA /cds=(45,716)
464D6	383	524	NM_016154	Hs.279771 1.00E-33	1	ras-related GTP-binding protein 4b (RAB4B), m
99G9	1375	1835	NM_013388	Hs.279784 0	1	prolactin regulatory element binding (PREB),
590F4	1045	1540	NM_003883	Hs.279789 0	2	histone deacetylase 3 (HDAC3), mRNA /cds=(55,1
163E1	59	564	NM_015932	Hs.279813 0	3	hypothetical protein (HSPC014), mRNA /cds=(8
525G5	3914	4160	NM_014819	Hs.279849 1.00E-138	1	KIAA0438 gene product (KIAA0438), mRNA /cds=(
598A10	9	821	NM_003295	Hs.279860 0	19	tumor protein, translationally-controlled 1
526C8	734	1166	NM_016007	Hs.279867 0	1	CGI-59 protein (LOC51625), mRNA /cds=(2,1153)
183G12	758	1093	NM_017774	Hs.279893 0	1	hypothetical protein FLJ20342 (FLJ20342), mR
36B3	247	611	AK025623	Hs.279901 0	1	FLJ21970 fis, clone HEP05733, highly sim
592G3	479	1052	NM_016146	Hs.279901 0	4	PTD009 protein (PTD009), mRNA /cds=(257,916)



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

38F5	811	1256	AF151875	Hs.279918 0	4	CGI-117 protein mRNA, complete cds /cds=(456,9
161E3	542	862	NM_016391	Hs.279918 1.00E-151	1	hypothetical protein (HSPC111), mRNA /cds=(6
584F11	10	212	NM_014248	Hs.279919 1.00E-112	2	ring-box 1 (RBX1), mRNA /cds=(6,332) /gb=NM_0
588H7	400	1155	NM_003404	Hs.279920 0	12	tyrosine 3-monooxygenase/tryptophan 5-monoo
169C8	400	1155	X57346	Hs.279920 1.00E-131	2	HS1 protein /cds=(372,1112) /gb=X57346
147A1	209	1978	AK025927	Hs.279921 0	8	FLJ22274 fis, clone HRC03616, highly sim
591H11	48	1810	NM_016127	Hs.279921 1.00E-176	33	HSPC035 protein (LOC51669), mRNA /cds=(16,103
69D1	727	1776	NM_014366	Hs.279923 0	3	putative nucleotide binding protein, estradio
52C6	303	1151	V00522	Hs.279930 0	2	encoding major histocompatibility complex gene
158C11	2483	2785	D84224	Hs.279946 1.00E-166	2	methionyl tRNA synthetase, complete c
194E7	1525	1767	NM_004990	Hs.279946 1.00E-125	1	methionine-tRNA synthetase (MARS), mRNA /cds
62E5	215	701	U93243	Hs.279948 0	1	Ubc5p homolog mRNA, complete cds /cds=(27,983)
145G3	1	1882	AK024090	Hs.281434 1.00E-147	5	FLJ14028 fis, clone HEMBA1003838 /cds=UN
473A6	1	310	BE552131	Hs.282091 1.00E-158	1	hw29b05.x1 cDNA, 3' end /clone=IMAGE:3184305
52C12	1	455	R67739	Hs.282401 0	1	y128c06.r1 cDNA, 5' end /clone=IMAGE:140554 /
112A3	5072	5274	NM_006165	Hs.282441 3.00E-83	1	nuclear factor related to kappa B binding prote
61H3	443	577	AV648638	Hs.282867 2.00E-68	4	AV648638 cDNA, 3' end /clone=GLCBL12 /clone_
37D3	38	766	AF287008	Hs.283022 0	5	triggering receptor expressed on monocytes 1
125C5	32	748	NM_018643	Hs.283022 0	13	triggering receptor expressed on myeloid cell
41B1	597	1084	NM_018636	Hs.283106 0	2	hypothetical protein PRO2987 (PRO2987), mRNA
111E9	1111	1405	AB037802	Hs.283109 1.00E-152	1	mRNA for KIAA1381 protein, partial cds /cds=(0
169D7	5	175	BE672733	Hs.283216 2.00E-37	1	7b75g07.x1 3' end /clone=IMAGE:3234108
74G11	47	384	BE676472	Hs.283267 1.00E-151	1	7f30c05.x1 cDNA, 3' end /clone=IMAGE:3296168
191A5	256	890	NM_018507	Hs.283330 0	3	hypothetical protein PRO1843 (PRO1843), mRNA
465B7	114	638	AW979262	Hs.283410 0	2	EST391372 cDNA /gb=AW979262 /gi=8170550 /ug=
143E1	1970	2258	NM_020217	Hs.283611 1.00E-110	1	hypothetical protein DKFZp5471014 (DKFZp5471
54E9	385	739	AF116620	Hs.283630 0	3	PRO1088 mRNA, complete cds /cds=UNKNOWN
462D10	63	279	NM_007220	Hs.283646 1.00E-119	1	/gb=A
518B11	359	690	NM_016058	Hs.283670 1.00E-167	2	carbonic anhydrase VB, mitochondrial (CA5B),
36H5	1	226	BE778549	Hs.283674 8.00E-85	1	CGI-119 protein (LOC51643), mRNA /cds=(0,776)
126H10	907	1431	NM_017801	Hs.283685 0	1	601466063F1 cDNA, 5' end /clone=IMAGE:3869391
69B1	2288	3232	AF103803	Hs.283690 0	6	hypothetical protein FLJ20396 (FLJ20396), mR
98B1	162	489	NM_018476	Hs.283719 1.00E-110	1	clone H41 unknown mRNA /cds=(323,1099) /gb=AF
39C3	997	3088	NM_020151	Hs.283722 0	2	uncharacterized hypothalamus protein HBEX2
592E4	13	2219	NM_020357	Hs.283728 0	2	GTT1 protein (GTT1), mRNA /cds=(553,1440) /gb
142F11	138	371	AF173296	Hs.283740 1.00E-130	1	PEST-containing nuclear protein (pcnp), mRNA
592F3	480	858	NM_013234	Hs.283781 0	2	e(y)2 homolog mRNA, complete cds /cds=(216,521
159E5	3	281	AL121916	Hs.283838 1.00E-113	6	muscle specific gene (M9), mRNA /cds=(171,827)
142H10	517	892	AL121585	Hs.283864 9.00E-70	2	DNA sequence from clone RP1-189G13 on
166D3	1	227	X72475	Hs.283972 6.00E-70	1	chromosome 20.
134E8	980	1302	NM_014110	Hs.284136 0	47	DNA sequence from clone RP11-504H3 on
596C5	30	705	NM_006134	Hs.284142 0	2	chromosome 20 C
74A4	1944	2157	AL359585	Hs.284158 1.00E-110	3	for rearranged Ig kappa light chain variable
159A4	159	1414	AF165521	Hs.284162 0	4	PRO2047 protein (PRO2047), mRNA /cds=(798,968
597F9	836	1000	NM_016304	Hs.284162 1.00E-88	1	chromosome 21 open reading frame 4 (C21ORF4), m
462D2	655	1306	NM_016301	Hs.284164 0	1	cDNA DKFZp762B195 (from clone DKFZp762B1
458C6	720	910	AP001753	Hs.284189 1.00E-102	1	ribosomal protein L30 isolog (L30) mRNA, compl
165D5	1482	2302	AB040120	Hs.284205 0	2	60S ribosomal protein L30 isolog (LOC51187), m
						protein x 0004 (LOC51184), mRNA /cds=(31,885)
						genomic DNA, chromosome 21q, section 97/105 /
						mRNA for BCG induced integral membrane protein

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

180C12	309	602	BF381953	Hs.284235	1.00E-148	2	601816251F1 cDNA, 5' end /clone=IMAGE:4050061
67D9	27	2026	AK024969	Hs.284249	0	10	FLJ21316 fis, clone COL02253, highly sim
39D1	307	2899	U90552	Hs.284283	0	5	butyrophilin (BTF5) mRNA, complete cds /cds=(359,190
147C8	391	556	AF161451	Hs.284295	2.00E-58	1	HSPC333 mRNA, partial cds /cds=(0,443) /gb=AF
192C12	333	484	AV700210	Hs.284605	5.00E-57	1	AV700210 cDNA, 3' end /clone=GKBALC03 /clone_
49G11	380	523	AV700636	Hs.284674	4.00E-33	1	AV700636 cDNA, 3' end /clone=GKBAGH12 /clone_
115C11	375	1001	AK023291	Hs.285017	0	1	cDNA FLJ13229 fis, clone OVARC1000106 /cds=(15
458H8	1544	2233	AK023459	Hs.285107	0	1	cDNA FLJ13397 fis, clone PLACE1001351 /cds=(22
70F4	11	605	AV700298	Hs.285173	0	4	AV700298 cDNA, 3' end /clone=GKCBVGO5 /clone_
66C6	684	1415	NM_001300	Hs.285313	0	5	core promoter element binding protein (COPEB),
169F2	4	460	BF684382	Hs.285555	0	2	602141836F1 5' end /clone=IMAGE:4302776
171F12	646	839	X58529	Hs.285823	6.00E-99	2	rearranged immunoglobulin mRNA for mu heavy chain enh
142F10	1438	1728	AK025788	Hs.285833	1.00E-152	1	FLJ22135 fis, clone HEP20858 /cds=UNKNOWN
171H2	1	2500	AL050376	Hs.285853	5.00E-21	1	mRNA; cDNA DKFZp586J101 (from clone DKFZp586J1
40C5	786	1163	AK026603	Hs.286124	0	2	FLJ22950 fis, clone KAT09618, highly sim
458D9	55	684	NM_016041	Hs.286131	0	1	CGI-101 protein (LOC51009), mRNA /cds=(6,635)
458D1	1	310	AK025886	Hs.286194	1.00E-151	1	cDNA: FLJ22233 fis, clone HRC02016 /cds=(35,12
515C10	817	1136	AK021791	Hs.286212	1.00E-138	1	cDNA FLJ11729 fis, clone HEMBA1005394, modera
71C7	285	2441	AK026933	Hs.286236	0	7	cDNA: FLJ23280 fis, clone HEP07194 /cds=(468,1
184B9	372	612	BE965319	Hs.286754	3.00E-66	2	601659229R1 cDNA, 3' end /clone=IMAGE:3895783
586C12	18	381	NM_000996	Hs.287361	0	3	ribosomal protein L35a (RPL35A), mRNA /cds=(6
36C6	152	685	AJ277247	Hs.287369	0	37	for interleukin 21 (IL-21 gene) /cds=(71,
513H8	17	690	NM_020525	Hs.287369	0	510	interleukin 22 (IL22), mRNA /cds=(71,610) /gb
586G2	3978	4107	NM_021621	Hs.287387	3.00E-68	1	caspase recruitment domain protein 7 (CARD7),
99D12	2330	2851	NM_015906	Hs.287414	0	1	transcriptional intermediary factor 1 gamma (
182A2	284	576	AK024331	Hs.287631	1.00E-156	1	cDNA FLJ14269 fis, clone PLACE1003864 /cds=UN
465A11	2226	2321	AK024372	Hs.287634	1.00E-42	1	cDNA FLJ14310 fis, clone PLACE3000271 /cds=(40
190A11	679	1126	AK026769	Hs.287725	0	1	cDNA: FLJ23116 fis, clone LNG07945, highly sim
75E2	479	837	AL390738	Hs.287788	1.00E-146	3	DNA sequence from clone RP11-438F9 on chromosome 13 C
59B7	488	1071	AK022537	Hs.287863	0	1	FLJ12475 fis, clone NT2RM1000962 /cds=(16
460E8	1611	1979	AK024092	Hs.287864	0	1	cDNA FLJ14030 fis, clone HEMBA1004086 /cds=UNK
465F11	5714	6271	NM_006312	Hs.287994	0	1	nuclear receptor co-repressor 2 (NCOR2), mRNA
150E12	2041	2720	AK026834	Hs.287995	0	3	FLJ23181 fis, clone LNG11094 /cds=UNKNOWN
52D9	703	1482	AB016247	Hs.288031	0	1	for sterol-C5-desaturase, complete cds
37F4	1091	1655	AK025375	Hs.288061	1.00E-141	20	FLJ21722 fis, clone COLF0522, highly sim
188G5	1081	1753	NM_001101	Hs.288061	0	69	actin, beta (ACTB), mRNA /cds=(73,1200) /gb=N
171C12	2103	2426	AB046857	Hs.288140	1.00E-158	1	KIAA1637 protein, partial cds /cds=(0
104E8	1354	1790	AK023078	Hs.288141	0	1	FLJ13016 fis, clone NT2RP3000624, modera
181A4	1890	2507	AK022030	Hs.288178	0	2	cDNA FLJ11968 fis, clone HEMBB1001133 /cds=UNK
129A1	3522	3748	J04144	Hs.288204	1.00E-125	1	angiotensin I-converting enzyme mRNA, complete cds /
598D12	1464	1947	AK025643	Hs.288224	0	3	cDNA: FLJ21990 fis, clone HEP06386 /cds=(22,49
52E6	920	1388	AK023402	Hs.288416	0	2	FLJ13340 fis, clone OVARC1001942, weakly
165E3	303	640	NM_020666	Hs.288417	0	1	protein serine threonine kinase Clk4 (CLK4),
53D3	1	153	AK022280	Hs.288435	6.00E-76	1	FLJ12218 fis, clone MAMMA1001075, modera
586C2	223	448	BF110312	Hs.288443	1.00E-63	3	7n36d08.x1 cDNA, 3' end /clone=IMAGE:3566654

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

521F12	1922	2248	AK026923	Hs.288455 0	1	cDNA: FLJ23270 fis, clone COL10309, highly sim
120A11	825	1855	AK026078	Hs.288555 0	2	cDNA: FLJ22425 fis, clone HRC08685 /cds=UNKNOWN
129D11	1723	1984	AK023470	Hs.288673 1.00E-143	2	FLJ13408 fis, clone PLACE1001672, weakly
109B12	1686	2086	AK025215	Hs.288708 1.00E-121	8	FLJ21562 fis, clone COL06420 /cds=(238,2
178F11	387	558	NM_005402	Hs.288757 3.00E-93	1	v-ral simian leukemia viral oncogene homolog
58F8	1262	1604	AK022735	Hs.288836 0	1	cDNA FLJ12673 fis, clone NT2RM4002344 /cds=(2,
163E11	360	1687	AK024094	Hs.288856 1.00E-25	2	FLJ14032 fis, clone HEMBA1004353, highly
105B4	741	1243	AK025092	Hs.288872 0	1	FLJ21439 fis, clone COL04352 /cds=(206,1
106D10	1598	2291	AB014515	Hs.288891 0	3	for KIAA0615 protein, complete cds /cds=(
460F8	154	2487	NM_021818	Hs.288908 1.00E-150	2	VW Domain-Containing Gene (VW45), mRNA /cds=(
48A6	560	1258	NM_017644	Hs.288922 0	1	hypothetical protein FLJ20059 (FLJ20059), mR
168B10	1271	1747	AK023320	Hs.288929 0	1	FLJ13258 fis, clone OVARC1000862, modera
114E2	2395	2849	AK023256	Hs.288932 0	1	cDNA FLJ13194 fis, clone NT2RP3004378, weakly
586F9	368	730	AK026363	Hs.288936 1.00E-162	4	cDNA: FLJ22710 fis, clone HSI13340 /cds=UNKNOWN
180B4	831	959	NM_000344	Hs.288986 1.00E-32	1	survival of motor neuron 1, telomeric (SMN1),
149A12	10	1958	AK025467	Hs.289008 0	5	FLJ21814 fis, clone HEP01068 /cds=UNKNOWN
117B5	5160	5611	NM_012231	Hs.289024 1.00E-141	1	PR domain containing 2, with ZNF domain (PRDM2)
469A5	3132	3365	AK024456	Hs.289034 1.00E-106	1	mRNA for FLJ00048 protein, partial cds /cds=(2
461F6	396	473	AK024197	Hs.289037 7.00E-37	1	cDNA FLJ14135 fis, clone MAMMA1002728 /cds=UN
176G11	1049	1811	AK024659	Hs.289069 0	4	cDNA: FLJ21016 fis, clone CAE05735 /cds=(90,11
473A5	1343	1937	NM_013326	Hs.289080 0	1	colon cancer-associated protein Mic1 (MIC1),
591G2	14	2259	NM_005348	Hs.289088 0	14	heat shock 90kD protein 1, alpha (HSPCA), mRNA
70D3	21	2912	X15183	Hs.289088 0	17	90-kDa heat-shock protein /cds=(60,2258) /g
37E8	780	1509	AK026033	Hs.289092 0	5	FLJ22380 fis, clone HRC07453, highly sim
74B10	408	791	X00453	Hs.289095 1.00E-153	2	gene fragment for DX alpha-chain signal peptide,
518B5	870	1128	NM_005313	Hs.289101 1.00E-119	1	glucose regulated protein, 58kD (GRP58), mRNA
472A3	116	304	X83300	Hs.289103 4.00E-84	1	H.sapiens SMA4 mRNA /cds=(66,488) /gb=X83300 /gi=603028 /
112G6	1703	2550	NM_001166	Hs.289107 0	5	baculoviral IAP repeat-containing 2 (BIRC2),
37F11	1996	2580	U37547	Hs.289107 0	2	IAP homolog B (MIHB) mRNA, complete cds /cds=(1159,301
169A12	371	588	X57812	Hs.289110 2.00E-84	1	rearranged immunoglobulin lambda light chain /c
472D6	2102	2424	AF294900	Hs.289118 1.00E-121	1	beta, beta-carotene 15,15'- dioxygenase (BCD
151D1	2214	2294	AK025846	Hs.289721 1.00E-38	2	FLJ22193 fis, clone HRC01108 /cds=UNKNOWN
40A8	160	346	AJ761924	Hs.289834 2.00E-94	1	wg68h03.x1 cDNA, 3' end /clone=IMAGE:2370293
468D5	42	105	AA719103	Hs.290535 5.00E-29	1	zh33d10.s1 cDNA, 3' end /clone=IMAGE:413875 /
515B6	7	249	AA837754	Hs.291129 2.00E-61	1	oe10d02.s1 cDNA /clone=IMAGE:1385475 /gb=AA
594C9	16	319	NM_005745	Hs.291904 1.00E-150	1	accessory proteins BAP31/BAP29 (DXS1357E), m
476C10	180	311	AJ184710	Hs.292276 8.00E-62	1	qd64a01.x1 cDNA, 3' end /clone=IMAGE:1734216
466G5	65	431	AA461604	Hs.292451 0	1	zx51d08.r1 cDNA, 5' end /clone=IMAGE:795759 /
331F12	142	314	BF310166	Hs.292457 3.00E-85	1	601894826F1 cDNA, 5' end /clone=IMAGE:4124119
590D6	1	406	BG339050	Hs.292457 0	2	602436875F1 cDNA, 5' end /clone=IMAGE:4554643
150G5	160	431	AJ440234	Hs.292490 6.00E-66	1	ti99h12.x1 cDNA, 3' end /clone=IMAGE:2140199
594F8	319	447	AA761571	Hs.292519 1.00E-57	1	nz23d06.s1 cDNA, 3' end /clone=IMAGE:1288619
122E2	91	307	AJ582954	Hs.292553 4.00E-47	1	tr98e07.x1 cDNA, 3' end /clone=IMAGE:2227140
41E5	363	463	D59502	Hs.292590 3.00E-48	1	HUM041H11A cDNA, 3' end /clone=GEN-041H11 /cd
99B8	215	378	AJ672433	Hs.292615 6.00E-62	4	wa03b05.x1 cDNA, 3' end /clone=IMAGE:2296977
72C6	198	484	AA719537	Hs.292877 1.00E-112	3	zh40g12.s1 cDNA, 3' end /clone=IMAGE:414598 /
157H5	49	447	AJ962127	Hs.292901 1.00E-126	1	wx77f07.x1 3' end /clone=IMAGE:2549701
115C2	2052	2613	NM_006310	Hs.293007 0	1	aminopeptidase puromycin sensitive (NPEPPS),
463F3	14	445	AW629485	Hs.293352 0	2	hi59b07.x1 cDNA, 3' end /clone=IMAGE:2976565
193H8	94	333	AJ263141	Hs.293444 7.00E-58	1	qw90c01.x1 cDNA, 3' end /clone=IMAGE:1998336
170G9	46	713	AJ452611	Hs.293473 9.00E-21	1	tj27g07.x1 cDNA, 3' end /clone=IMAGE:2142780

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

100F9	554	666	BE905040	Hs.293515	2.00E-43	1	601496859F1 cDNA, 5' end /clone=IMAGE:3898767
588G9	153	507	BF794089	Hs.293658	1.00E-143	1	602255649F1 cDNA, 5' end /clone=IMAGE:4338732
142G8	2	231	AV701332	Hs.293689	1.00E-79	1	AV701332 cDNA, 5' end /clone=ADAABD03 /clone_
137A4	1	557	BF029654	Hs.293777	0	1	601765621F1 cDNA, 5' end /clone=IMAGE:3997900
478C6	442	622	BE748123	Hs.293842	3.00E-63	1	601571679F1 cDNA, 5' end /clone=IMAGE:3838675
100E7	198	488	BE748663	Hs.293842	1.00E-145	1	601571679T1 cDNA, 3' end /clone=IMAGE:3838675
110B4	246	469	NM_016398	Hs.293905	1.00E-122	1	hypothetical protein (HSPC131), mRNA /cds=(1
466D2	198	543	AW972477	Hs.294083	1.00E-180	1	EST384568 cDNA /gb=AW972477 /gi=8162323 /ug=
100C10	1	398	AW963235	Hs.294092	0	2	EST375308 /gb=AW963235 /gi=8153071 /ug=
118F10	418	552	BF245076	Hs.294110	1.00E-48	1	601863910F1 cDNA, 5' end /clone=IMAGE:4082235
596H2	1150	2308	BC002450	Hs.294135	0	20	ribosomal protein L4, clone MGC:776, mRNA, co
596B4	139	414	BE621121	Hs.294309	7.00E-73	3	601493943F1 cDNA, 5' end /clone=IMAGE:3896051
114D4	600	738	BE961923	Hs.294348	8.00E-33	1	601655335R1 cDNA, 3' end /clone=IMAGE:3845768
66D11	185	625	BE963811	Hs.294578	1.00E-127	6	601657462R1 cDNA, 3' end /clone=IMAGE:3875846
53E11	433	701	BE964149	Hs.294612	5.00E-81	1	601657833R1 cDNA, 3' end /clone=IMAGE:3875984
179A11	442	776	BF313856	Hs.294754	9.00E-79	1	601902261F1 5' end /clone=IMAGE:4134998
102B9	146	347	H71236	Hs.295055	7.00E-90	2	ys12f10.s1 cDNA, 3' end /clone=IMAGE:214603 /
110F4	138	358	H80108	Hs.295107	1.00E-118	1	yu09f02.s1 cDNA, 3' end /clone=IMAGE:233307 /
593F2	78	381	AF212224	Hs.295231	1.00E-172	3	CLK4 mRNA, complete cds /cds=(153,1514) /gb=A
50G9	355	415	AI052431	Hs.295451	1.00E-26	2	oz07e08.x1 cDNA, 3' end /clone=IMAGE:1674662
102E4	99	413	AI560651	Hs.295682	1.00E-146	8	tq60f01.x1 cDNA, 3' end /clone=IMAGE:2213209
486F7	263	489	BF572855	Hs.295806	1.00E-100	1	602078424F2 cDNA, 5' end /clone=IMAGE:4254172
39C1	2054	2315	AL050141	Hs.295833	1.00E-144	6	cDNA DKFZp588O031 (from clone DKFZp588O0
192D3	48	551	AW081320	Hs.295945	1.00E-158	4	xc30f12.x1 cDNA, 3' end /clone=IMAGE:2585807
102B7	753	850	AL117536	Hs.295969	5.00E-39	1	cDNA DKFZp434G012 (from clone DKFZp434G0
168D1	73	1193	AL360190	Hs.295978	1.00E-134	3	mRNA full length insert cDNA clone EUROIIMAGE 74
47D6	103	331	AW150085	Hs.295997	3.00E-79	8	xg36f04.x1 cDNA, 3' end /clone=IMAGE:2629663
151H9	197	507	AW264291	Hs.296057	1.00E-113	1	xq97g08.x1 cDNA, 3' end /clone=IMAGE:2758622
56A1	1034	1220	AJ012504	Hs.296151	3.00E-74	1	activated in tumor suppression, clone TSA
525D12	42	545	AI922889	Hs.296159	1.00E-148	42	wn64g11.x1 cDNA, 3' end /clone=IMAGE:2450276
72C12	280	545	AW166001	Hs.296159	1.00E-84	10	xf43e11.x1 cDNA, 3' end /clone=IMAGE:2620844
99B1	21	286	BE259480	Hs.296183	4.00E-81	3	601106571F1 cDNA, 5' end /clone=IMAGE:3342929
143F5	18	178	BE962588	Hs.296183	1.00E-55	1	601655929R1 cDNA, 3' end /clone=IMAGE:3855823
110A10	2115	2237	AL096752	Hs.296243	1.00E-61	1	cDNA DKFZp434A012 (from clone DKFZp434A0
170G1	16	304	BE964134	Hs.296246	4.00E-96	1	601657818R1 cDNA, 3' end /clone=IMAGE:3876028
597G5	168	1564	NM_014456	Hs.296251	0	18	programmed cell death 4 (PDCD4), mRNA /cds=(84
184A12	686	1564	U96628	Hs.296251	0	2	nuclear antigen H731-like protein mRNA, compl
479H10	247	540	NM_002072	Hs.296261	1.00E-117	1	guanine nucleotide binding protein (G protein
179H11	48	250	BF315059	Hs.296266	3.00E-56	1	601899090F1 5' end /clone=IMAGE:4128334
182E9	1576	2251	AK023460	Hs.296275	0	2	FLJ13398 fis, clone PLACE1001377, highly
459B11	305	545	BF340402	Hs.296317	1.00E-79	1	602036746F1 cDNA, 5' end /clone=IMAGE:4184602
459B12	349	721	AK001838	Hs.296323	0	1	cDNA FLJ10976 fis, clone PLACE1001399 /cds=UN
179F8	1	756	BF342246	Hs.296333	0	2	602013019F1 5' end /clone=IMAGE:4148741

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

171D1	12	330	AV693913	Hs.296339	1.00E-100	1	AV693913 cDNA, 5' end /clone=GKCDVG04 /clone_
39B9	1	297	AB046771	Hs.296350	1.00E-167	1	for KIAA1551 protein, partial cds /cds=(0
36H12	547	1089	M96995	Hs.296381	0	2	epidermal growth factor receptor-binding pro
459F1	867	1020	NM_014499	Hs.296433	4.00E-76	1	putative purinergic receptor (P2Y10), mRNA /c
584A11	615	1287	NM_006392	Hs.296585	0	4	nucleolar protein (KKE/D repeat) (NOP56), mRN
593F7	209	752	NM_005678	Hs.296948	0	2	SNRPN upstream reading frame (SNURF), transcr
174F7	493	681	BE253125	Hs.297095	2.00E-60	5	601116648F1 cDNA, 5' end /clone=IMAGE:3357178
123H9	132	413	BE965554	Hs.297190	9.00E-88	1	601659486R1 cDNA, 3' end /clone=IMAGE:3896204
123D6	1105	1595	AF113676	Hs.297681	0	1	clone FLB2803 PRO0684 mRNA, complete cds /cds=
71C6	1076	1630	NM_003380	Hs.297753	0	2	vimentin (VIM), mRNA /cds=(122,1522) /gb=NM_0
586G5	1179	1452	NM_001908	Hs.297939	1.00E-142	1	cathepsin B (CTSB), mRNA /cds=(177,1196) /gb=
521E7	1	220	NM_001022	Hs.298262	1.00E-119	4	ribosomal protein S19 (RPS19), mRNA /cds=(22,4
466H7	9	339	AW614181	Hs.298654	1.00E-153	1	hg77d03.x1 cDNA, 3' end /clone=IMAGE:2951621
464A4	675	1232	BC001077	Hs.299214	0	1	clone IMAGE:2822295, mRNA, partial cds /cds=
466F3	49	337	AA132448	Hs.299416	1.00E-141	1	zo20a03.s1 cDNA, 3' end /clone=IMAGE:587404 /
589B10	123	339	AW073707	Hs.299581	1.00E-55	30	xb01h03.x1 cDNA, 3' end /clone=IMAGE:2575061
521H4	3	371	NM_001000	Hs.300141	1.00E-125	4	ribosomal protein L39 (RPL39), mRNA /cds=(37,1
599F12	36	328	AW243795	Hs.300220	2.00E-67	1	xo56f02.x1 cDNA, 3' end /clone=IMAGE:2707995
479A6	173	356	AW262077	Hs.300229	3.00E-64	1	xq61e07.x1 cDNA, 3' end /clone=IMAGE:2755140
111C8	806	1350	NM_018579	Hs.300496	1.00E-147	6	mitochondrial solute carrier (LOC51312), mRN
459D8	1	679	NM_014478	Hs.300684	0	1	calcitonin gene-related peptide-receptor co
522C5	98	1360	NM_001154	Hs.300711	0	10	annexin A5 (ANXA5), mRNA /cds=(192,1154) /gb=
596B7	407	750	NM_003130	Hs.300741	2.00E-83	1	sorcin (SRI), mRNA /cds=(12,608) /gb=NM_00313
191A3	210	440	AA788623	Hs.301104	4.00E-34	9	ah29f09.s1 cDNA, 3' end /clone=1240265 /clone
123E1	15	267	BE963194	Hs.301110	1.00E-60	11	601656811R1 cDNA, 3' end /clone=IMAGE:3865731
116F11	346	650	NM_014029	Hs.301175	2.00E-71	2	HSPC022 protein (HSPC022), mRNA /cds=(18,623)
58D4	489	611	AW863111	Hs.301183	8.00E-50	1	MR3-SN0009-010400-101-f02 cDNA /gb=AW863111
122D8	3644	4034	AB037808	Hs.301434	0	1	mRNA for KIAA1387 protein, partial cds /cds=(0
520F11	276	553	BE886472	Hs.301486	1.00E-111	1	601509688F1 cDNA, 5' end /clone=IMAGE:3911301
512E5	71	687	NM_001011	Hs.301547	0	8	ribosomal protein S7 (RPS7), mRNA /cds=(81,665
463F9	168	689	AV702152	Hs.301570	0	1	AV702152 cDNA, 5' end /clone=ADBBFH05 /clone_
117A12	2239	2395	NM_007167	Hs.301637	5.00E-78	1	zinc finger protein 258 (ZNF258), mRNA /cds=(9
190A6	12942	13156	AF155238	Hs.301698	1.00E-114	1	BAC 180i23 chromosome 8 map 8q24.3 beta-galacto
594F12	1409	1841	NM_005442	Hs.301704	0	1	eomesodemin (Xenopus laevis) homolog (EOMES)
116G12	5477	5571	AB033081	Hs.301721	6.00E-47	1	mRNA for KIAA1255 protein, partial cds /cds=(0
123C4	23	579	BE260041	Hs.301809	1.00E-129	4	601150579F1 cDNA, 5' end /clone=IMAGE:3503419
192E12	1458	1854	NM_007145	Hs.301819	0	1	zinc finger protein 146 (ZNF146), mRNA /cds=(8
590G8	1100	1307	AF132197	Hs.301824	3.00E-57	1	PRO1331 mRNA, complete cds /cds=(422,616) /gb
482E5	1764	2139	NM_001295	Hs.301921	0	1	chemokine (C-C motif) receptor 1 (CCR1), mRNA
583C5	4283	4684	NM_014415	Hs.301956	0	1	zinc finger protein (ZNF-U89274), mRNA /cds=(
173G11	645	839	X58529	Hs.302063	1.00E-104	4	rearranged immunoglobulin mRNA for mu heavy chain
597D11	30	369	AL137162	Hs.302114	1.00E-150	5	enh DNA sequence from clone RP5-843L14 on chromosome 20.
191G9	182	353	AC004079	Hs.302183	9.00E-60	1	PAC clone RP1-167F23 from 7p15 /cds=(0,569) /g
473D2	102	333	BF477640	Hs.302447	1.00E-126	1	7r01c05.x1 cDNA /clone=IMAGE /gb=BF477640 /g
479A9	18	267	BE964028	Hs.302585	7.00E-79	1	601657601R1 cDNA, 3' end /clone=IMAGE:3875617
180A5	894	1325	NM_018295	Hs.302981	0	2	hypothetical protein FLJ11000 (FLJ11000), mR

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

593H6	950	1151	X00437	Hs.303157	1.00E-104	1	mRNA for T-cell specific protein /cds=(37,975) /gb=X0
51G12	274	533	BG054649	Hs.303214	1.00E-138	4	7o45b01.x1 cDNA, 3' end /clone=IMAGE:3576912
189B10	785	1024	NM_002138	Hs.303627	1.00E-133	2	heterogeneous nuclear ribonucleoprotein D (
99B11	1	529	NM_002982	Hs.303649	0	51	small inducible cytokine A2 (monocyte chemota
481E1	397	496	AI472078	Hs.303662	2.00E-28	1	ij85h03.x1 cDNA, 3' end /clone=IMAGE:2148341
103A1	359	687	AF130085	Hs.304177	1.00E-151	1	clone FLB8503 PRO2286 mRNA, complete cds /cds
180B11	52	240	AI824522	Hs.304477	4.00E-57	1	tx71d03.x1 cDNA, 3' end /clone=IMAGE:2275013
519A10	1	104	AI880542	Hs.304620	3.00E-26	1	at80h05.x1 cDNA, 3' end /clone=IMAGE:2378361
479F6	331	582	AA873734	Hs.304886	1.00E-131	1	oh55h07.s1 cDNA, 3' end /clone=IMAGE:1470589
176G3	61	324	AI904802	Hs.304919	2.00E-74	1	IL-BT067-190199-037 cDNA /gb=AI904802 /gi=6
471G6	169	397	AW592876	Hs.304925	1.00E-122	1	hg04d05.x1 cDNA, 3' end /clone=IMAGE:2944617
119D11	3	348	AL049282	Hs.306030	1.00E-179	1	mRNA; cDNA DKFZp564M113 (from clone DKFZp564M1
112F7	2398	3008	U80743	Hs.306094	0	1	CAGH32 mRNA, partial cds /cds=(0,1671) /gb=U80
460C1	243	533	NM_001353	Hs.306098	5.00E-71	1	aldo-keto reductase family 1, member C1 (dihy
126A4	469	543	L08048	Hs.306192	2.00E-28	1	non-histone chromosomal protein (HMG-1) retropseudo
119F3	2113	2237	AL096752	Hs.306327	3.00E-60	1	mRNA; cDNA DKFZp434A012 (from clone DKFZp434A0
467F8	1860	2406	AL390039	Hs.307106	0	1	DNA sequence from clone RP13-383K5 on chromosome Xq22
192B12	1	454	X72475	Hs.307183	0	6	H.sapiens mRNA for rearranged Ig kappa light chain variable
116H11	60	402	AF067519	Hs.307357	1.00E-160	1	PITSLRE protein kinase beta SV1 isoform (CDC2L
472D3	150	478	AW975895	Hs.307486	1.00E-124	1	EST388004 cDNA /gb=AW975895 /gi=8167117 /ug=
458B4	87	354	AW206977	Hs.307542	1.00E-143	1	UI-H-BI1-afs-h-11-0-UI.s1 cDNA, 3' end /clon
463A11	181	397	AI057025	Hs.307879	1.00E-69	1	oy75a12.x1 cDNA, 3' end /clone=IMAGE:1671646
479C6	138	403	BE264564	Hs.308154	1.00E-144	1	601192330F1 cDNA, 5' end /clone=IMAGE:3536383
468G10	118	446	AI361642	Hs.309028	0	1	qy86d04.x1 cDNA, 3' end /clone=IMAGE:2018887
461G12	64	466	AI379735	Hs.309117	7.00E-26	1	tc41c11.x1 cDNA, 3' end /clone=IMAGE:2067188
466H8	15	487	AI380278	Hs.309120	0	1	tf99f08.x1 cDNA, 3' end /clone=IMAGE:2107431
477C8	28	187	AI380449	Hs.309122	7.00E-84	1	tg02f12.x1 cDNA, 3' end /clone=IMAGE:2107631
477C9	47	537	AI380687	Hs.309127	0	1	tg03e04.x1 cDNA, 3' end /clone=IMAGE:2107710
465F4	68	631	AI440337	Hs.309279	0	1	tc88b03.x1 cDNA, 3' end /clone=IMAGE:2073197
465G6	313	404	AI475653	Hs.309347	9.00E-31	1	tc93b04.x1 cDNA, 3' end /clone=IMAGE:2073679
465E7	1	340	AI475827	Hs.309349	1.00E-171	2	tc87a05.x1 cDNA, 3' end /clone=IMAGE:2073104
517G11	62	516	AI707809	Hs.309433	1.00E-115	2	as28g09.x1 cDNA, 3' end /clone=IMAGE:2318560
468D11	290	497	AI523766	Hs.309484	1.00E-103	1	tg94f07.x1 cDNA, 3' end /clone=IMAGE:2116453
186F5	77	418	AI569898	Hs.309629	1.00E-81	1	tr57c12.x1 cDNA, 3' end /clone=IMAGE:2222422
116A12	8	158	AI735206	Hs.310333	2.00E-43	1	at07f03.x1 cDNA, 3' end /clone=IMAGE:2354429
126G12	35	170	AI866194	Hs.310948	1.00E-54	1	wl27a03.x1 cDNA, 3' end /clone=IMAGE:2426092
172G8	86	227	AI926251	Hs.311137	3.00E-44	1	wo41h05.x1 cDNA, 3' end /clone=IMAGE:2457945
477D8	1	115	AI968387	Hs.311448	4.00E-42	2	wu02e08.x1 cDNA, 3' end /clone=IMAGE:2515814
462F10	13	220	AW043857	Hs.311783	1.00E-107	1	wy81g04.x1 cDNA, 3' end /clone=IMAGE:2554998
185A9	46	423	AW130007	Hs.312182	1.00E-130	2	xf26f10.x1 cDNA, 3' end /clone=IMAGE:2619211
515F6	34	181	AW148618	Hs.312412	3.00E-58	2	xe99f02.x1 cDNA, 3' end /clone=IMAGE:2616699
583E12	5945	6393	AL133572	Hs.312840	0	1	mRNA; cDNA DKFZp434I0535 (from clone DKFZp434I
471D5	306	411	AW298430	Hs.313413	1.00E-46	1	UI-H-BW0-ajl-c-09-0-UI.s1 cDNA, 3' end /clon
482F7	1	449	AW440965	Hs.313578	0	1	he06d07.x1 cDNA, 3' end /clone=IMAGE:2918221
473B3	179	463	BG150461	Hs.313610	1.00E-135	1	7k01d08.x1 cDNA, 3' end /clone=IMAGE:3443006
479E9	138	434	AW450835	Hs.313715	1.00E-127	1	UI-H-BI3-alf-f-06-0-UI.s1 cDNA, 3' end /clon
71B9	344	577	AI733018	Hs.313929	1.00E-115	1	oh60h01.x5 cDNA, 3' end /clone=IMAGE:1471441
479B6	217	443	AW629176	Hs.314085	2.00E-70	1	hi52a04.x1 cDNA, 3' end /clone=IMAGE:2975886
191F11	55	123	BE255377	Hs.314898	1.00E-26	1	601115405F1 cDNA, 5' end /clone=IMAGE:3355872

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

522F11	14	204	BE962883	Hs.314941	9.00E-83	3	601656423R1 cDNA, 3' end /clone=IMAGE:3856325
195F12	120	363	BE351010	Hs.315050	2.00E-77	1	ht22g04.x1 cDNA, 3' end /clone=IMAGE:3147510
173A5	429	824	BE410105	Hs.315263	1.00E-133	1	601302278F1 cDNA, 5' end /clone=IMAGE:3637002
481B2	1063	1283	NM_006255	Hs.315366	3.00E-72	1	protein kinase C, eta (PRKCH), mRNA /cds=(166,2
459G1	1428	1700	NM_006850	Hs.315463	1.00E-124	1	suppression of tumorigenicity 16 (melanoma di
113H4	22	359	BE901218	Hs.315633	1.00E-127	2	601676034F1 cDNA, 5' end /clone=IMAGE:3958617
583B7	510	754	BE963666	Hs.316047	2.00E-55	2	601656685R1 cDNA, 3' end /clone=IMAGE:3865820
466E10	488	644	AV729160	Hs.316771	1.00E-54	1	AV729160 cDNA, 5' end /clone=HTCCAB04 /clone_
597A6	50	249	AV710763	Hs.316785	4.00E-31	2	AV710763 cDNA, 5' end /clone=CuAAJH09 /clone_
123C3	41	529	BF183507	Hs.318215	1.00E-158	1	601809991R1 cDNA, 3' end /clone=IMAGE:4040470
193E12	15	2274	NM_006074	Hs.318501	0	7	stimulated trans-acting factor (50 kDa) (STAF
165D8	727	1344	BC002867	Hs.318693	0	1	clone IMAGE:3940519, mRNA, partial cds /cds=
49F8	520	1094	M16942	Hs.318720	0	1	MHC class II HLA-DRw53-associated glycoprotein beta-
172E10	310	944	NM_016018	Hs.318725	0	1	CGI-72 protein (LOC51105), mRNA /cds=(69,1400
585B1	51	296	BF696330	Hs.318782	6.00E-90	4	602125273F1 cDNA, 5' end /clone=IMAGE:4281906
45E12	208	737	NM_000636	Hs.318885	0	7	superoxide dismutase 2, mitochondrial (SOD2)
460G2	409	663	BG106948	Hs.318893	5.00E-96	1	602291361F1 cDNA, 5' end /clone=IMAGE:4386159
480C1	155	325	BF889206	Hs.319926	4.00E-74	1	RC6-TN0073-041200-013-H02 cDNA /gb=BF889206
178F1	1	387	BG112503	Hs.320972	1.00E-133	3	602282105F1 cDNA, 5' end /clone=IMAGE:4369633
176G4	1092	1339	AL110236	Hs.321022	1.00E-136	1	mRNA; cDNA DKFZp566P1124 (from clone DKFZp566P
461H6	1701	2239	NM_024101	Hs.321130	0	1	hypothetical protein MGC2771 (MGC2771), mRNA
513F2	605	1614	AK001111	Hs.321245	0	2	cDNA FLJ10249 fis, clone HEMBB1000725, highly
525B4	9	251	BE871962	Hs.321262	6.00E-98	15	601448005F1 cDNA, 5' end /clone=IMAGE:3852001
467A4	1974	2223	AK026270	Hs.321454	6.00E-87	1	cDNA: FLJ22617 fis, clone HSI05379, highly sim
589F10	39	276	BF970928	Hs.321477	5.00E-77	1	602270204F1 cDNA, 5' end /clone=IMAGE:4358425
125A7	1102	1584	BC000627	Hs.321677	0	1	Signal transducer and activator of transcript
597H3	2786	2920	AL136542	Hs.322456	4.00E-46	2	mRNA; cDNA DKFZp761D0211 (from clone DKFZp761D
465E2	40	107	BE747224	Hs.322643	7.00E-22	1	601580941F1 cDNA, 5' end /clone=IMAGE:3929386
515A12	1	698	AL050376	Hs.322645	0	2	mRNA; cDNA DKFZp586J101 (from clone DKFZp586J1
589H11	26	265	BG283132	Hs.322653	4.00E-79	6	602406784F1 cDNA, 5' end /clone=IMAGE:4518957
586E5	1939	2162	AK025200	Hs.322680	1.00E-120	3	cDNA: FLJ21547 fis, clone COL06206 /cds=UNKNOWN
595A2	1	306	BG311130	Hs.322804	2.00E-70	2	ia55a08.y1 cDNA, 5' end /clone_end=5' /gb=BG3
459H11	742	951	BC002748	Hs.322824	1.00E-111	1	Similar to dodecenoyl-Coenzyme A delta isome
64C3	655	887	NM_020368	Hs.322901	1.00E-112	1	disrupter of silencing 10 (SAS10), mRNA /cds=(
591B8	3626	4574	D80006	Hs.322903	0	3	mRNA for KIAA0184 gene, partial cds /cds=(0,2591) /gb
458C3	5106	5198	NM_003035	Hs.323032	3.00E-43	1	TAL1 (SCL) interrupting locus (SIL), mRNA /cds
526B7	2132	2750	NM_024334	Hs.323193	0	2	hypothetical protein MGC3222 (MGC3222), mRNA
167F4	467	731	NM_014953	Hs.323346	1.00E-136	2	KIAA1008 protein (KIAA1008), mRNA /cds=(93,28
194B8	1913	3596	AB051480	Hs.323463	0	9	mRNA for KIAA1693 protein, partial cds /cds=(0
478H9	75	564	BF700502	Hs.323662	0	1	602128860F1 cDNA, 5' end /clone=IMAGE:4285502

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

119B1	1598	2284	NM_014664	Hs.323712	0	2	KIAA0615 gene product (KIAA0615), mRNA /cds=(
167H2	1410	3683	AB046771	Hs.323822	0	4	mRNA for KIAA1551 protein, partial cds /cds=(0
595C12	1	528	NM_021998	Hs.323950	0	6	zinc finger protein 6 (CMPX1) (ZNF6), mRNA /cd
462F1	1	356	AK026836	Hs.324060	1.00E-176	1	cDNA: FLJ23183 fis, clone LNG11477 /cds=(226,7
122D10	217	424	AK026091	Hs.324187	2.00E-83	1	cDNA: FLJ22438 fis, clone HRC09232, highly sim
525B2	1028	3282	AL136739	Hs.324275	0	2	mRNA; cDNA DKFZp434D2111 (from clone DKFZp434D
459B6	3	482	BF668584	Hs.324342	0	1	602123634F1 cDNA, 5' end /clone=IMAGE:4280408
583D10	232	466	NM_021104	Hs.324406	1.00E-130	2	ribosomal protein L41 (RPL41), mRNA /cds=(83,1
118F8	2262	2819	NM_016824	Hs.324470	0	1	adducin 3 (gamma) (ADD3), transcript variant 1
461A5	46	391	AW968541	Hs.324481	1.00E-111	1	EST380617 cDNA /gb=AW968541 /gi=8158382 /ug=
467F11	927	1189	NM_000817	Hs.324784	1.00E-147	1	glutamate decarboxylase 1 (brain, 67kD) (GAD1
103E12	1686	1771	AK024863	Hs.325093	9.00E-42	1	cDNA: FLJ21210 fis, clone COL00479 /cds=UNKNOWN
521E11	4276	4689	AB028990	Hs.325530	0	1	mRNA for KIAA1067 protein, partial cds /cds=(0
480A9	112	333	AA760848	Hs.325874	1.00E-108	1	nz14f06.s1 cDNA, 3' end /clone=IMAGE:1287779
71G8	2619	2868	NM_001964	Hs.326035	1.00E-116	1	early growth response 1 (EGR1), mRNA /cds=(270,
593D6	742	3372	NM_004735	Hs.326159	0	4	leucine rich repeat (in FLII) interacting prot
463G9	42	608	AW975482	Hs.326165	0	1	EST387591 cDNA /gb=AW975482 /gi=8166696 /ug=
526B12	2380	2639	U83857	Hs.326247	1.00E-143	2	Aac11 (aac11) mRNA, complete cds /cds=(77,1663) /gb=
36A1	63	338	AA010282	NA	1.00E-116	1	zi08h07.r1 Soares_fetal_liver_spleen_1NFLS_S1 cDNA
459D10	67	164	AA044450	NA	3.00E-47	1	zk55a02.r1 Soares_pregnant_uterus_NbHPU cDNA clone
469E6	1	216	AA069335	NA	1.00E-104	1	zf74e10.r1 Soares_pineal_gland_N3HPG cDNA clone
463B2	4	205	AA077131	NA	4.00E-88	1	Brain cDNA Library cDNA clone 7B08E10
68H9	17	383	AA101212	NA	0	1	endothelial cell 937223 cDNA clone IMAGE:549805 3'
458F3	120	498	AA115345	NA	0	1	zi09f11.r1 Soares_pregnant_uterus_NbHPU cDNA clone
459E6	36	532	AA122297	NA	0	1	zk97a11.r1 Soares_pregnant_uterus_NbHPU cDNA clone
462C5	1	122	AA136584	NA	2.00E-59	1	fetal retina 937202 cDNA clone IMAGE:565899 3'
594A1	60	412	AA149078	NA	0	1	zi45e09.r1 Soares_pregnant_uterus_NbHPU cDNA clone
515A9	329	449	AA182528	NA	2.00E-46	1	NT2 neuronal precursor 937230 cDNA clone
75H4	7	371	AA187234	NA	1.00E-119	1	endothelial cell 937223 cDNA clone IMAGE:624540 3'
73F10	1	544	AA210786	NA	0	1	cDNA clone IMAGE:682976 5'
525D8	1	119	AA214691	NA	6.00E-60	1	Express cDNA library cDNA 5'
37H4	250	401	AA243144	NA	3.00E-48	1	cDNA clone IMAGE:685113 5'
463B10	145	408	AA250809	NA	1.00E-123	1	cDNA clone IMAGE:684374 5'
464E10	1	303	AA251184	NA	1.00E-119	1	cDNA clone IMAGE:684046 5'
477H8	1	123	AA252909	NA	4.00E-58	3	cDNA clone IMAGE:669292 5'
465C3	1	279	AA258979	NA	1.00E-129	1	cDNA clone IMAGE:687151 5'
588G6	275	529	AA280051	NA	2.00E-94	1	cDNA clone IMAGE:705062 5'
465E9	74	429	AA282774	NA	0	1	cDNA clone IMAGE:713136 5'
459E7	49	466	AA283061	NA	0	1	cDNA clone IMAGE:713078 5'
164B4	41	329	AA284232	NA	1.00E-148	2	zc39c01.T7 Soares_senescent_fibroblasts_NbHSF cDNA
461G8	289	532	AA290921	NA	1.00E-123	1	cDNA clone IMAGE:700335 5'
470G7	29	441	AA290993	NA	0	1	cDNA clone IMAGE:700425 5'
500A12	1	519	AA307854	NA	1.00E-174	1	(HCC) cell line cDNA 5' end similar to
471F4	9	326	AA309188	NA	1.00E-153	1	cDNA
194B6	134	467	AA312681	NA	1.00E-163	1	cDNA 5' end



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

69F3	5	321	AA314369	NA	1.00E-176	1	(HCC) cell line II cDNA 5' end similar
67G10	1	171	AA319163	NA	3.00E-64	2	cDNA 5' end
99A5	1	287	AA322158	NA	1.00E-136	1	cDNA 5' end similar to similar to tropomyosin
171B1	13	310	AA332553	NA	1.00E-135	1	cDNA 5' end
485D11	46	210	AA360634	NA	2.00E-75	1	cDNA 5' end
462G2	1	183	AA377352	NA	4.00E-89	2	cDNA 5' end
523A8	1	407	AA397592	NA	0	1	cDNA clone IMAGE:728546 5'
171G10	1	409	AA401648	NA	0	2	cDNA clone IMAGE:726936 5'
100F5	42	172	AA402069	NA	4.00E-60	1	cDNA clone IMAGE:727161 5'
459H7	48	375	AA412436	NA	1.00E-163	1	cDNA clone IMAGE:731446 5'
102A8	25	120	AA418765	NA	1.00E-46	1	cDNA clone IMAGE:767795 5'
73A3	1	424	AA426506	NA	0	1	cDNA clone IMAGE:768117 5'
72E10	1	442	AA427653	NA	0	11	tumor NbHOT cDNA clone IMAGE:770045 5'
72A1	1	261	AA429783	NA	1.00E-142	1	zw57b01.r1 Soares_total_fetus_Nb2HF8_9w cDNA clone
460D12	126	388	AA431959	NA	1.00E-93	1	cDNA clone IMAGE:782188 3'
460B11	1	437	AA454987	NA	0	1	cDNA clone IMAGE:811916 5'
518A8	1	329	AA457757	NA	1.00E-177	1	fetal retina 937202 cDNA clone IMAGE:838756 5'
460F7	47	490	AA460876	NA	0	1	zx69d04.r1 Soares_total_fetus_Nb2HF8_9w cDNA clone
118H12	1	304	AA476568	NA	1.00E-163	1	zx02f11.r1 Soares_total_fetus_Nb2HF8_9w cDNA clone
40F11	1	533	AA479163	NA	0	1	cDNA clone IMAGE:754246 5' similar to gb:X15606
470F3	76	356	AA482019	NA	1.00E-142	1	cDNA clone IMAGE:746046 3'
466C2	1	354	AA490796	NA	1.00E-148	1	cDNA clone IMAGE:824101 5'
464A9	228	364	AA496483	NA	7.00E-71	1	tumor NbHOT cDNA clone IMAGE:755690 5' similar to
123D11	99	297	AA501725	NA	1.00E-103	1	cDNA clone IMAGE:929806 similar to contains Alu
119G10	128	374	AA501934	NA	1.00E-134	1	cDNA clone IMAGE:956346
166A11	19	140	AA516406	NA	1.00E-48	1	cDNA clone IMAGE:923858 3'
36G1	5	480	AA524720	NA	0	1	cDNA clone IMAGE:937468 3'
109H9	37	286	AA573427	NA	1.00E-130	2	cDNA clone IMAGE:1028913 3'
477B2	8	273	AA579400	NA	1.00E-143	1	cDNA clone IMAGE:915561 similar to contains Alu
178C10	1	354	AA588755	NA	1.00E-177	1	cDNA clone IMAGE:1084243 3'
486G7	35	99	AA613460	NA	6.00E-28	1	cDNA clone IMAGE:1144571 similar to contains
472E9	27	389	AA628833	NA	1.00E-119	1	af37g04.s1 Soares_total_fetus_Nb2HF8_9w cDNA clone
100C3	122	505	AA639796	NA	0	1	cDNA clone IMAGE:1159029 3'
518A7	39	226	AA665359	NA	4.00E-83	1	cDNA clone IMAGE:1205697 similar to
473D9	377	446	AA683244	NA	1.00E-30	1	schizo brain S11 cDNA clone IMAGE:971252 3'
523D7	80	502	AA701667	NA	1.00E-158	1	zi43g09.s1 Soares_fetal_liver_spleen_1NFLS_S1 cDNA
472B1	37	130	AA744774	NA	1.00E-35	1	cDNA clone IMAGE:1283731 3'
98C9	10	254	AA748714	NA	1.00E-111	1	cDNA clone IMAGE:1270595 3'
196D7	3	442	AA806222	NA	0	1	cDNA clone IMAGE:1409989 3'
118A8	10	381	AA806766	NA	0	1	cDNA clone IMAGE:1338727 3'
98B3	56	159	AA826572	NA	7.00E-47	1	cDNA clone IMAGE:1416447 3'
154D9	38	405	AA846378	NA	1.00E-164	1	cDNA clone IMAGE:1394232 3'
459C2	1	491	AA909983	NA	0	2	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:1523142 3'
486A7	1	176	AA916990	NA	1.00E-72	1	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:1527333 3'
460D2	78	537	AA923567	NA	0	1	cDNA clone IMAGE:1536231 3'
105F4	86	390	AA974839	NA	4.00E-94	1	cDNA clone IMAGE:1567639 3'
461H7	295	383	AA974991	NA	2.00E-30	1	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:1560953 3'
162B1	398	470	AA976045	NA	9.00E-28	1	cDNA clone IMAGE:1558392 3'
53D8	1	422	AA984245	NA	1.00E-162	1	schizo brain S11 cDNA clone IMAGE:1629672 3'
524A5	3568	4037	AB020681	NA	0	1	mRNA for KIAA0874 protein, partial cds Length = 4440

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

174H3	81	271	AB021288	NA	1.00E-101	1	mRNA for beta 2-microglobulin, complete cds Length = 925
115A2	1920	2309	AB034747	NA	0	4	SIMPLE mRNA for small integral membrane protein of lysosome/late endos
39G7	1578	1920	AB040875	NA	1.00E-135	3	hxCT mRNA for cystine/glutamate exchanger, complete cds Length = 2000
149H2	430	713	AB044971	NA	1.00E-158	1	mRNA for nucleolar phosphoprotein Nopp34, complete cds Length = 1005
458F6	780	1235	AB045118	NA	0	1	FRAT2 mRNA, complete cds Length = 2164
459D12	2694	3564	AB045278	NA	0	2	beta3GnT5 mRNA for beta1,3-N-acetylglucosaminyltransferase 5, complete
103H7	1294	1933	AB049881	NA	1.00E-139	1	similar to Macaca fascicularis brain cDNA, clone:QnpA-18828 Length = 2517
102E11	1142	1772	AB050511	NA	0	1	similar to Macaca fascicularis brain cDNA, clone:QnpA-18828 Length = 2518
460C3	798	930	AB050514	NA	9.00E-54	1	similar to Macaca fascicularis brain cDNA, clone:QnpA-18828 Length = 2519
480A10	4649	5183	AB058677	NA	0	1	mRNA for MEGF11 protein (KIAA1781), complete cds Length = 5702
142G10	2251	2430	AB060884	NA	6.00E-44	1	similar to Macaca fascicularis brain cDNA clone:QtrA-13024, full insert sequence
494G5	1585	1998	AF005213	NA	0	1	ankyrin 1 (ANK1) mRNA, complete cds Length = 2651
154C6	520	826	AF005775	NA	1.00E-150	3	caspase-like apoptosis regulatory protein 2 (clarp) mRNA, alternativel
186B6	772	1248	AF039575	NA	0	1	heterogeneous nuclear ribonucleoprotein D0B mRNA, partial cds
471A4	395	611	AF061944	NA	6.00E-84	1	kinase deficient protein KDP mRNA, partial cds Length = 2653
37G5	277	525	AF067529	NA	1.00E-129	1	PITSLRE protein kinase beta SV18 Isoform (CDC2L2) mRNA, partial cds
479D1	1270	1570	AF070635	NA	1.00E-144	1	clone 24818 mRNA sequence Length = 1643
491E2	38	226	AF086214	NA	9.00E-74	1	full length Insert cDNA clone ZC64D04 Length = 691
517C2	230	465	AF086431	NA	1.00E-113	1	full length Insert cDNA clone ZD79H10 Length = 530
593C6	1	359	AF113210	NA	0	5	MSTP030 mRNA, complete cds Length = 1024
191A8	135	1169	AF113213	NA	0	3	MSTP033 mRNA, complete cds Length = 1281
144E9	799	943	AF116679	NA	9.00E-29	1	PRO2003 mRNA, complete cds Length = 1222
106E3	583	1187	AF116702	NA	0	2	PRO2446 mRNA, complete cds Length = 1356
72F8	878	1205	AF130094	NA	1.00E-175	1	clone FLC0165 mRNA sequence Length = 1548
458G9	730	1463	AF157116	NA	0	1	clone 274512, mRNA sequence Length = 2172
139F11	18	229	AF161430	NA	1.00E-115	1	HSPC312 mRNA, partial cds Length = 360
149H10	406	621	AF161455	NA	3.00E-95	2	HSPC337 mRNA, partial cds Length = 1033
68A9	19	243	AF173954	NA	2.00E-27	1	Cloning vector pGEM-URA3, complete sequence Length = 4350
165B7	65	418	AF202092	NA	0	1	PC3-96 mRNA, complete cds Length = 1068
52H1	361	594	AF212226	NA	1.00E-34	1	RPL24 mRNA, complete cds Length = 1474
162H8	52	404	AF212233	NA	1.00E-179	1	microsomal signal peptidase subunit mRNA, complete cds Length = 794
54E10	680	1316	AF212241	NA	0	3	CDA02 mRNA, complete cds Length = 2179
117D8	2052	2482	AF248648	NA	0	3	RNA-binding protein BRUNOL2 mRNA, complete cds Length = 2615
75E3	326	662	AF249845	NA	0	2	isolate Siddi 10 hypervariable region I, mitochondrial sequence
459G12	791	1267	AF260237	NA	0	1	hairy/enhancer of split 6 (HES6) mRNA, complete cds Length = 1286
177F6	1968	2423	AF267856	NA	0	1	HT033 mRNA, complete cds Length = 2972
115G8	996	1399	AF267863	NA	0	1	DC43 mRNA, complete cds Length = 2493
501H3	426	1152	AF279437	NA	0	107	interleukin 22 (IL22) mRNA, complete cds Length = 1167
174B4	900	1332	AF283771	NA	0	2	clone TCBAP0774 mRNA sequence Length = 1814

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

126C7	454	843	AF332864	NA	1.00E-116	2	similar to Mus Ras association domain family 3 protein (Rassf3) mRNA
105A9	232	624	AF333025	NA	1.00E-140	1	prokineticin 2 precursor (PROK2) mRNA, complete cds Length = 1406
186F1	4543	5058	AF347010	NA	0	3	mitochondrion, complete genome Length = 16570
590B12	4684	5053	AF347013	NA	0	1	mitochondrion, complete genome Length = 16566
517H7	4669	5058	AF347015	NA	0	1	mitochondrion, complete genome Length = 16571
596E9	220	295	AI027844	NA	3.00E-34	1	cDNA clone IMAGE:1671612 3'
599B3	608	609	AI039390	NA	1.00E-45	1	ox97d11.x1 Soares_senescent_fibroblasts_NbHSF cDNA
189H9	22	524	AI041828	NA	0	1	oy34b08.x1 Soares_parathyroid_tumor_NbHPA cDNA clone
471F6	63	526	AI084224	NA	0	1	cDNA clone IMAGE:1671418 3'
142E9	6	372	AI091533	NA	1.00E-179	1	oo23d05.x1 Soares_NSF_F8_9W_OT_PA_P_S1 cDNA clone
72D2	65	529	AI131018	NA	0	6	qb82e07.x1 Soares_fetal_heart_NbHH19W cDNA clone
468F6	9	428	AI223400	NA	0	1	cDNA clone IMAGE:1838447 3' similar to TR:O15383
185H1	94	199	AI267714	NA	5.00E-50	1	SB pool 1 cDNA clone IMAGE:2038526
166A9	1	480	AI275205	NA	0	1	cDNA clone IMAGE:1990616 3'
499F2	4	395	AI281442	NA	0	2	cDNA clone IMAGE:1967452 3'
517H5	155	457	AI298509	NA	1.00E-158	1	cDNA clone IMAGE:1896546 3'
144F7	24	364	AI299573	NA	0	1	cDNA clone IMAGE:1900105 3'
519E9	52	408	AI352690	NA	1.00E-180	1	cDNA clone IMAGE:1946884 3'
466F9	172	440	AI361839	NA	1.00E-109	1	cDNA clone IMAGE:2022012 3'
144C9	118	373	AI362793	NA	7.00E-63	1	cDNA clone IMAGE:2018948 3' similar to gb:M60854
464B11	19	455	AI363001	NA	0	1	cDNA clone IMAGE:2018452 3' similar to contains
127B6	40	257	AI370412	NA	6.00E-96	1	cDNA clone IMAGE:1987587 3'
166C4	58	271	AI371227	NA	1.00E-62	1	cDNA clone IMAGE:1987633 3' similar to
467G7	1	450	AI380016	NA	0	1	cDNA clone IMAGE:2109169 3' similar to
466C5	316	497	AI380390	NA	8.00E-44	1	cDNA clone IMAGE:2107088 3'
466B5	200	477	AI381586	NA	1.00E-126	1	cDNA clone IMAGE:2074796 3'
458G10	347	444	AI384128	NA	2.00E-40	1	cDNA clone IMAGE:2088819 3' similar to contains
467A8	415	522	AI391500	NA	1.00E-41	1	cDNA clone IMAGE:2107686 3'
477D1	14	269	AI392705	NA	1.00E-137	2	cDNA clone IMAGE:2109581 3'
467B11	1	293	AI393970	NA	1.00E-122	1	cDNA clone IMAGE:2107950 3'
522D3	250	526	AI419082	NA	1.00E-127	1	cDNA clone IMAGE:2103029 3'
149A11	25	313	AI440491	NA	1.00E-132	1	cDNA clone IMAGE:2073277 3'
471C1	77	215	AI458739	NA	1.00E-50	1	cDNA clone IMAGE:2149471 3' similar to gb:S85655
116E10	162	503	AI469584	NA	1.00E-171	1	cDNA clone IMAGE:2156522 3'
472C8	1	369	AI498316	NA	0	1	cDNA clone IMAGE:2160886 3' similar to TR:Q62717
468E8	2	451	AI523854	NA	3.00E-92	1	cDNA clone IMAGE:2116683 3'
477B5	23	295	AI524624	NA	2.00E-86	1	cDNA clone IMAGE:2075323 3'
193H3	368	489	AI525644	NA	4.00E-34	1	cDNA 5'
66F1	277	436	AI571519	NA	7.00E-84	2	cDNA clone IMAGE:2225079 3' similar to gb:J03909
171A11	225	429	AI581199	NA	1.00E-101	3	cDNA clone IMAGE:2154787 3' similar to
116F2	337	429	AI597917	NA	4.00E-42	1	cDNA clone IMAGE:2258495 3' similar to contains
461G10	9	398	AI627495	NA	1.00E-179	1	cDNA clone IMAGE:2285386 3'
594D11	206	434	AI628930	NA	1.00E-110	1	cDNA clone IMAGE:2281541 3' similar to
489H9	1	507	AI633798	NA	0	4	cDNA clone IMAGE:2242115 3'
171G7	212	431	AI634972	NA	1.00E-103	1	cDNA clone IMAGE:2284157 3'
165C12	270	581	AI651212	NA	1.00E-175	1	cDNA clone IMAGE:2304186 3'
64B3	1	529	AI678099	NA	0	1	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:2330166 3'
134H3	185	289	AI684022	NA	1.00E-34	1	cDNA clone IMAGE:2267411 3'

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

110B8	169	496	AI688560	NA	1.00E-132	1	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:2330535 3'
459F2	160	542	AI697756	NA	0	1	cDNA clone IMAGE:2341330 3'
481F11	21	340	AI700738	NA	1.00E-167	1	cDNA clone IMAGE:2343628 3'
488C5	37	533	AI701165	NA	0	4	cDNA clone IMAGE:2340734 3'
104D9	116	241	AI709236	NA	4.00E-60	1	HPLRB6 cDNA clone IMAGE:2353865 3' similar to wg47a05.x1 Soares_NSF_F8_9W_OT_PA_P_S1
112E1	18	576	AI742850	NA	0	1	cDNA clone
113H12	5	140	AI748827	NA	1.00E-63	1	HPLRB6 cDNA clone IMAGE:2356401 3'
458B8	150	474	AI760353	NA	0	1	cDNA clone IMAGE:2387703 3'
461H11	334	578	AI762870	NA	1.00E-111	1	cDNA clone IMAGE:2397996 3'
458D10	1	465	AI765153	NA	0	1	cDNA clone IMAGE:2393531 3'
38B5	2	295	AI766963	NA	1.00E-140	1	cDNA clone IMAGE:2400693 3'
471A2	320	394	AI796317	NA	2.00E-31	1	cDNA clone IMAGE:2384100 3'
74D10	15	377	AI802547	NA	1.00E-124	2	cDNA clone IMAGE:2186739 3' similar to TR:O15510
482C9	117	409	AI803065	NA	1.00E-164	1	tj47a07.x1 Soares_NSF_F8_9W_OT_PA_P_S1 cDNA clone
480C5	177	517	AI807278	NA	0	1	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:2357909 3'
175B12	228	513	AI817153	NA	1.00E-132	1	cDNA clone IMAGE:2413005 3'
66E10	14	268	AI858771	NA	1.00E-119	1	cDNA clone IMAGE:2429769 3'
470H6	65	500	AI880607	NA	0	1	HPLRB6 cDNA clone IMAGE:2355013 3'
181D12	7	512	AI884548	NA	0	1	cDNA clone IMAGE:2437818 3' similar to gb:L06797
468H6	52	528	AI884671	NA	0	1	cDNA clone IMAGE:2431488 3'
597C9	284	383	AI904071	NA	1.00E-48	1	cDNA
467C2	206	351	AI917642	NA	2.00E-59	1	cDNA clone IMAGE:2392330 3'
459D1	25	575	AI948513	NA	0	1	cDNA clone IMAGE:2470532 3'
166E11	152	280	AI954499	NA	4.00E-54	1	cDNA clone IMAGE:2550263 3'
493D7	2032	2171	AJ001235	NA	4.00E-29	1	similar to Papio hamadryas ERV-9 like LTR insertion Length = 2240
116B1	1169	1744	AJ009771	NA	0	1	mRNA for putative RING finger protein, partial Length = 3038
137B9	296	407	AJ271637	NA	4.00E-32	1	similar to Elaeis guineensis microsatellite DNA, clone mEgCIR0219
483E6	4250	4492	AJ278191	NA	1.00E-95	1	similar to Mus musculus mRNA for putative mc7 protein (mc7 gene)
144A8	988	1152	AK001163	NA	1.00E-75	1	cDNA FLJ10301 fis, clone NT2RM2000032 Length = 1298
525C11	49	496	AK001451	NA	0	1	cDNA FLJ10589 fis, clone NT2RP2004389
177D9	707	980	AK004265	NA	7.00E-76	1	similar to Mus 18 days embryo cDNA, RIKEN full- length enriched library,
111E10	777	1121	AK004400	NA	1.00E-112	1	similar to Mus 18 days embryo cDNA, RIKEN full- length enriched library,
458G4	650	1259	AK008020	NA	8.00E-86	1	similar to Mus adult male small intestine cDNA, RIKEN full-length enrich
47G7	31	328	AK009988	NA	1.00E-111	1	similar to Mus adult male tongue cDNA, RIKEN full- length enriched librar
69G7	1801	1987	AK012426	NA	5.00E-68	3	similar to Mus 11 days embryo cDNA, RIKEN full- length enriched library,
62C10	1092	1267	AK013164	NA	6.00E-46	2	similar to Mus 10, 11 days embryo cDNA, RIKEN full- length enriched libra
46D9	3243	3564	AK014408	NA	1.00E-104	1	similar to Mus 12 days embryo embryonic body below diaphragm region
178C11	2069	2326	AK016683	NA	9.00E-83	1	similar to Mus adult male testis cDNA, RIKEN full- length enriched librar
102C12	698	1339	AK018758	NA	0	1	similar to Mus adult male liver cDNA, RIKEN full- length enriched library
585B3	1278	1873	AK021925	NA	0	1	cDNA FLJ11863 fis, clone HEMBA1006926 Length = 2029

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

46F3	1377	2006	AK022057	NA	0	1	cDNA FLJ11995 fis, clone HEMBB1001443, highly similar to Rattus norveg
73E7	344	1112	AK023512	NA	0	9	cDNA FLJ13450 fis, clone PLACE1003027, highly similar to Homo sapiens
465B12	681	1338	AK024202	NA	0	1	cDNA FLJ14140 fis, clone MAMMA1002858, highly similar to Rat cMG1
142D12	254	358	AK024740	NA	9.00E-27	1	cDNA: FLJ21087 fis, clone CAS03323 Length = 826
472F7	1330	1623	AK024764	NA	1.00E-164	1	cDNA: FLJ21111 fis, clone CAS05384, highly similar to AF144700 Homo sa
521A3	26	195	AK024976	NA	2.00E-90	1	cDNA: FLJ21323 fis, clone COL02374 Length = 1348
465D1	2091	2255	AK025769	NA	1.00E-74	1	cDNA: FLJ22116 fis, clone HEP18520 Length = 2271
595E9	16	546	AK026264	NA	0	1	cDNA: FLJ22611 fis, clone HSI04961 Length = 1426
103E1	1353	1866	AK026334	NA	1.00E-126	1	cDNA: FLJ22681 fis, clone HSI10693 Length = 1903
524F3	1635	1742	AK026443	NA	9.00E-51	2	cDNA: FLJ22790 fis, clone KAI/A2176, highly similar to HUMPMCA
196H10	938	1286	AK026819	NA	6.00E-82	1	cDNA: FLJ23166 fis, clone LNG09880 Length = 1941
172F7	349	738	AK027258	NA	0	1	cDNA: FLJ23605 fis, clone LNG15982, highly similar to AF113539 Homo sa
187B10	1583	2142	AK027260	NA	1.00E-129	1	cDNA: FLJ23607 fis, clone LNG16050 Length = 2560
190F11	76	636	AL042081	NA	0	1	(synonym: htes3) cDNA clone DKFZp434P171 3'
525A9	1	653	AL042370	NA	0	1	(synonym: htes3) cDNA clone DKFZp434A1821 5'
464G8	59	686	AL042376	NA	0	1	(synonym: htes3) cDNA clone DKFZp434A2421 5'
172B12	380	624	AL047171	NA	1.00E-131	1	(synonym: hute1) cDNA clone DKFZp586F2018 5'
193F3	915	1309	AL049305	NA	1.00E-133	1	mRNA; cDNA DKFZp564A186 (from clone DKFZp564A186) Length = 1669
111H8	102	660	AL049356	NA	1.00E-146	1	mRNA; cDNA DKFZp566E233 (from clone DKFZp566E233) Length = 808
526E6	118	551	AL049932	NA	1.00E-147	2	mRNA; cDNA DKFZp564H2416 (from clone DKFZp564H2416) Length = 1865
37C8	707	996	AL050218	NA	1.00E-156	1	mRNA; cDNA DKFZp586I0923 (from clone DKFZp586I0923) Length = 1282
72A9	1235	1391	AL110164	NA	2.00E-70	1	mRNA; cDNA DKFZp586I0324 (from clone DKFZp586I0324) Length = 1705
107C8	1042	1398	AL117644	NA	0	2	mRNA; cDNA DKFZp434M095 (from clone DKFZp434M095) Length = 1455
62E7	1	475	AL120453	NA	1.00E-117	1	(synonym: hamy2) cDNA clone DKFZp761I208 5'
492A7	77	390	AL121406	NA	1.00E-101	1	(synonym: hmel2) cDNA clone DKFZp762G117 5'
598B1	443	812	AL133879	NA	1.00E-172	1	(synonym: hamy2) cDNA clone DKFZp761J0114 5'
458C10	47	351	AL133913	NA	5.00E-76	1	(synonym: hamy2) cDNA clone DKFZp761M2014 5'
98E7	922	2284	AL136558	NA	0	6	mRNA; cDNA DKFZp761B1514 (from clone DKFZp761B1514) Length = 3453
157F6	3511	3847	AL136797	NA	0	1	mRNA; cDNA DKFZp434N031 (from clone DKFZp434N031); complete cds
68B4	1009	1595	AL136932	NA	0	1	mRNA; cDNA DKFZp586H1322 (from clone DKFZp586H1322); complete cds
458B6	278	955	AL137601	NA	0	1	mRNA; cDNA DKFZp434E0811 (from clone DKFZp434E0811); partial cds
172C9	1866	2423	AL137608	NA	0	1	mRNA; cDNA DKFZp434J1111 (from clone DKFZp434J1111); partial cds
72G1	194	474	AL138429	NA	1.00E-151	1	(synonym: htes3) cDNA clone DKFZp434E0829 3'
463H12	12	356	AL513780	NA	1.00E-124	1	cDNA clone CL0BA003ZF07 5 prime
181B6	43	638	AL520535	NA	0	1	cDNA clone CS0DB006YD20 3 prime
69B6	352	858	AL520892	NA	0	1	cDNA clone CS0DB002YG16 5 prime
182A5	119	617	AL521097	NA	0	1	cDNA clone CS0DB001YA13 3 prime
458E9	3	865	AL528020	NA	0	2	cDNA clone CS0DC028YO09 3 prime

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

485C11	1	431	AL532303	NA	0	1	cDNA clone CS0DM014YJ04 5 prime
196G3	78	698	AL532406	NA	0	1	cDNA clone CS0DM014YL03 5 prime
105H4	154	485	AL533737	NA	1.00E-156	1	cDNA clone CS0DF002YH09 5 prime
594G1	337	756	AL534564	NA	0	1	cDNA clone CS0DF004YI09 5 prime
524A9	403	906	AL540260	NA	0	1	cDNA clone CS0DF032YF03 3 prime
118H5	433	532	AL540399	NA	4.00E-39	1	cDNA clone CS0DE001YM08 5 prime
124C2	270	815	AL543900	NA	0	1	cDNA clone CS0DI005YK13 3 prime
471D3	216	403	AL550229	NA	9.00E-49	1	cDNA clone CS0DI039YD11 5 prime
191F2	324	844	AL554506	NA	0	1	cDNA clone CS0DI083YJ17 5 prime
166F6	64	576	AL556016	NA	0	1	cDNA clone CS0DK010YH04 5 prime
467G9	61	401	AL556919	NA	1.00E-138	1	cDNA clone CS0DK012YI02 5 prime
37D7	149	685	AL559029	NA	0	1	cDNA clone CS0DJ010YJ11 5 prime
590B3	76	287	AL559422	NA	1.00E-111	2	cDNA clone CS0DJ013YN07 5 prime
181H2	168	780	AL559555	NA	0	1	cDNA clone CS0DJ013YP21 5 prime
589E3	28	447	AL561074	NA	0	1	cDNA clone CS0DL001YN01 5 prime
487F9	326	739	AL561892	NA	1.00E-149	1	cDNA clone CS0DB006YL04 3 prime
68F10	12	658	AL562895	NA	0	1	cDNA clone CS0DC021YO20 3 prime
157D7	2	108	AL565736	NA	1.00E-28	1	cDNA clone CS0DF007YC06 3 prime
177B1	231	505	AL567986	NA	1.00E-128	1	cDNA clone CS0DF036YI04 3 prime
512E3	627	815	AL575666	NA	1.00E-94	1	cDNA clone CS0DI069YD02 3 prime
112E10	193	623	AL575755	NA	0	1	cDNA clone CS0DI070YG17 3 prime
70H7	197	757	AL576149	NA	0	1	cDNA clone CS0DI072YK21 3 prime
37F1	275	411	AL577970	NA	1.00E-43	1	cDNA clone CS0DK008YK22 3 prime
65D4	278	828	AL578975	NA	0	1	cDNA clone CS0DK012YN01 3 prime
182G2	70	684	AL579745	NA	0	1	cDNA clone CS0DJ003YG20 5 prime
194F9	450	669	AL582354	NA	3.00E-94	1	cDNA clone CS0DL006YH05 3 prime
184F2	27	501	AL583322	NA	2.00E-37	1	cDNA clone CS0DL012YI10 5 prime
40A3	432	638	AL583391	NA	4.00E-83	1	cDNA clone CS0DL012YA12 3 prime
53G7	6	462	AU117298	NA	0	1	sapiens cDNA clone HEMBA1001091 5'
37G7	218	706	AU118159	NA	0	1	sapiens cDNA clone HEMBA1002998 5'
180F9	174	698	AU120731	NA	0	1	sapiens cDNA clone HEMBB1001298 5'
191F1	298	608	AU135154	NA	1.00E-137	1	sapiens cDNA clone PLACE1001348 5'
466G7	11	125	AU158636	NA	1.00E-53	1	sapiens cDNA clone PLACE4000053 3'
67F9	1	453	AV648670	NA	0	2	cDNA clone GLCBLH08 3'
155D6	97	337	AV650434	NA	1.00E-104	1	cDNA clone GLCCG06 3'
596H6	1	397	AV651615	NA	0	1	cDNA clone GLCCRF09 3'
99D5	41	232	AV653169	NA	6.00E-78	1	cDNA clone GLCDIB01 3'
331C10	33	365	AV654188	NA	1.00E-103	6	cDNA clone GLCDTC01 3'
121A12	70	188	AV659358	NA	3.00E-47	1	cDNA clone GLCFWC05 3'
460G9	69	476	AV687530	NA	0	1	cDNA clone GK CATH08 5'
470F5	1	174	AV689330	NA	2.00E-50	1	cDNA clone GKCDJE03 5'
109E8	71	471	AV705900	NA	0	1	cDNA clone ADBBFE11 5'
166C9	121	226	AV709955	NA	2.00E-26	1	cDNA clone ADCABF08 5'
117F1	69	582	AV710415	NA	0	1	cDNA clone CuAAND10 5'
523C9	41	536	AV716565	NA	0	6	cDNA clone DCBCAF01 5'
103D7	1	164	AV716644	NA	3.00E-77	2	cDNA clone DCBAUG10 5'
195F11	232	459	AV716791	NA	1.00E-113	2	cDNA clone DCBAZC04 5'
63C4	208	421	AV719659	NA	1.00E-101	1	cDNA clone GLCGRA09 5'
496C4	156	563	AV719938	NA	0	1	cDNA clone GLCFUC08 5'
479A1	120	469	AV720984	NA	1.00E-162	1	cDNA clone HTBBIC02 5'
499D6	70	406	AV721008	NA	1.00E-112	4	cDNA clone HTBBHG03 5'
461C8	182	676	AV723437	NA	0	1	cDNA clone HTBBUE10 5'
585G1	173	552	AV724531	NA	0	1	cDNA clone HTBARD04 5'
113B8	1	149	AV724559	NA	3.00E-40	1	cDNA clone HTBCFB08 5'
111H4	497	498	AV724665	NA	0	1	cDNA clone HTBAYG03 5'
458F5	1	534	AV730135	NA	0	1	cDNA clone HTFAHA06 5'
589F6	21	226	AV735258	NA	6.00E-70	1	cDNA clone cdAAIF03 5'
172C8	209	426	AV738173	NA	9.00E-98	1	cDNA clone CBMAHC04 5'
464G3	43	498	AV743635	NA	0	1	cDNA clone CBLBAC03 5'

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

72D4	43	384	AV745692	NA	1.00E-178	2	cDNA clone NPAACB06 5'
592G12	175	571	AV749844	NA	1.00E-176	1	cDNA clone NPCBVG08 5'
169F6	110	250	AV755117	NA	3.00E-28	1	cDNA clone TPAABA12 5'
99H3	200	513	AV755367	NA	1.00E-131	2	cDNA clone BMFAIB02 5'
595G9	399	549	AV756188	NA	2.00E-31	1	cDNA clone BMFABD08 5'
595A12	8	572	AW002985	NA	0	2	cDNA clone IMAGE:2475831 3'
586B7	184	330	AW004905	NA	8.00E-50	1	cDNA clone IMAGE:2565317 3' similar to
591D6	15	436	AW021037	NA	0	1	Cochlea cDNA clone IMAGE:2483601 5'
188F1	135	476	AW021551	NA	0	1	Cochlea cDNA clone IMAGE:2484414 5'
467E8	73	474	AW027160	NA	1.00E-162	1	Soares_thymus_NHFTTh cDNA clone IMAGE:2512983 3' similar to
472G2	11	110	AW054187	NA	9.00E-38	1	CD4 intrathymic T-cell cDNA library cDNA 3'
598F3	43	453	AW071894	NA	0	1	cDNA clone IMAGE:2501169 3'
181C7	10	96	AW131768	NA	8.00E-41	1	cDNA clone IMAGE:2619947 3'
181D1	69	216	AW134512	NA	2.00E-77	1	UI-H-BI1-abv-e-05-0-UI.s1 NCI_CGAP_Sub3 cDNA clone IMAGE:2713065 3'
472B10	339	458	AW136717	NA	4.00E-54	1	UI-H-BI1-adm-a-03-0-UI.s1 NCI_CGAP_Sub3 cDNA clone IMAGE:2717092 3'
166B9	240	408	AW137104	NA	6.00E-88	1	UI-H-BI1-acp-e-02-0-UI.s1 NCI_CGAP_Sub3 cDNA clone IMAGE:2714979 3'
188C1	323	461	AW137149	NA	2.00E-72	1	UI-H-BI1-acq-a-05-0-UI.s1 NCI_CGAP_Sub3 cDNA clone IMAGE:2715152 3'
65B2	106	298	AW148765	NA	7.00E-75	1	cDNA clone IMAGE:2616915 3'
524C3	234	429	AW151854	NA	1.00E-76	2	cDNA clone IMAGE:2623546 3' similar to
479A8	6	327	AW161820	NA	1.00E-151	1	brain 00004 cDNA clone IMAGE:2781653 3'
585E10	7	391	AW166442	NA	0	1	Soares_NHCE_cervix cDNA clone IMAGE:2697403 3'
482C6	9	329	AW188398	NA	1.00E-133	1	cDNA clone IMAGE:2665252 3'
522G11	39	516	AW248322	NA	0	1	cDNA clone IMAGE:2820662 5'
473D5	283	416	AW274156	NA	4.00E-69	1	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:2814367 3'
71C12	20	530	AW293159	NA	0	2	UI-H-BW0-all-b-08-0-UI.s1 NCI_CGAP_Sub6 cDNA clone IMAGE:2729414 3'
472H11	205	501	AW293424	NA	1.00E-151	1	UI-H-BI2-ahm-a-12-0-UI.s1 NCI_CGAP_Sub4 cDNA clone IMAGE:2727094 3'
465H11	17	124	AW293426	NA	1.00E-48	1	UI-H-BI2-ahm-b-02-0-UI.s1 NCI_CGAP_Sub4 cDNA clone IMAGE:2727122 3'
461H8	19	452	AW295965	NA	0	1	UI-H-BI2-ahh-f-07-0-UI.s1 NCI_CGAP_Sub4 cDNA clone IMAGE:2726917 3'
464B7	250	551	AW300500	NA	3.00E-95	1	cDNA clone IMAGE:2774602 3'
465C7	1	322	AW338115	NA	0	1	cDNA clone IMAGE:2833029 3'
466H5	10	523	AW341449	NA	0	1	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:2909026 3' similar to
461D9	12	325	AW379049	NA	1.00E-134	1	HT0230 cDNA
186E8	51	277	AW380881	NA	1.00E-103	1	HT0283 cDNA
180D4	260	348	AW384988	NA	2.00E-30	1	HT0427 cDNA
472C1	13	404	AW390233	NA	1.00E-122	1	ST0181 cDNA
462G12	236	321	AW402007	NA	3.00E-40	1	UI-HF-BK0-aao-g-02-0-UI.r1 NIH_MGC_36 cDNA clone IMAGE:3054530 5'
177H2	18	338	AW405863	NA	9.00E-52	1	UI-HF-BL0-acf-e-06-0-UI.r1 NIH_MGC_37 cDNA clone IMAGE:3059026 5'
140G10	6	308	AW440517	NA	1.00E-152	1	cDNA clone IMAGE:2890615 3'
482A10	1	231	AW440869	NA	1.00E-114	1	cDNA clone IMAGE:2918151 3' similar to contains
40B2	18	353	AW444632	NA	4.00E-45	1	UI-H-BI3-ajw-b-11-0-UI.s1 NCI_CGAP_Sub5 cDNA clone IMAGE:2733260 3'
61C2	21	392	AW444812	NA	0	1	UI-H-BI3-ajy-d-11-0-UI.s1 NCI_CGAP_Sub5 cDNA clone IMAGE:2733380 3'
461H10	151	248	AW449610	NA	8.00E-48	1	UI-H-BI3-aku-g-11-0-UI.s1 NCI_CGAP_Sub5 cDNA clone IMAGE:2735804 3'
479E10	9	425	AW451293	NA	0	1	UI-H-BI3-alh-f-06-0-UI.s1 NCI_CGAP_Sub5 cDNA clone IMAGE:2736899 3'

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

489G6	16	303	AW452023	NA	1.00E-125	1	UI-H-BI3-alm-f-06-0-UI.s1 NCI_CGAP_Sub5 cDNA clone IMAGE:2737306 3'
463H8	99	289	AW452096	NA	1.00E-103	1	UI-H-BI3-alo-d-02-0-UI.s1 NCI_CGAP_Sub5 cDNA clone IMAGE:3068186 3'
459B8	71	535	AW499658	NA	0	1	UI-HF-BR0p-ajj-c-07-0-UI.r1 NIH_MGC_52 cDNA clone IMAGE:3074677 5'
37A2	128	395	AW499828	NA	1.00E-110	1	UI-HF-BN0-ake-c-06-0-UI.r1 NIH_MGC_50 cDNA clone IMAGE:3076619 5'
112E5	88	557	AW499829	NA	0	1	UI-HF-BN0-ake-c-07-0-UI.r1 NIH_MGC_50 cDNA clone IMAGE:3076621 5'
523F5	435	517	AW500534	NA	4.00E-36	1	UI-HF-BN0-akj-d-04-0-UI.r1 NIH_MGC_50 cDNA clone IMAGE:3077406 5'
476E10	152	450	AW501528	NA	1.00E-129	1	UI-HF-BP0p-ajf-c-02-0-UI.r1 NIH_MGC_51 cDNA clone IMAGE:3073923 5'
67D10	36	413	AW504212	NA	0	1	UI-HF-BN0-alp-a-11-0-UI.r1 NIH_MGC_50 cDNA clone IMAGE:3080348 5'
100E10	29	364	AW504293	NA	1.00E-159	1	UI-HF-BN0-alg-b-10-0-UI.r1 NIH_MGC_50 cDNA clone IMAGE:3079267 5'
484D12	35	353	AW510795	NA	1.00E-167	1	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:2911933 3' similar to
480B2	109	446	AW572538	NA	1.00E-162	1	cDNA clone IMAGE:2832030 3'
465D2	272	464	AW573211	NA	2.00E-49	1	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:2933767 3' similar to
47G6	125	126	AW614193	NA	1.00E-51	1	cDNA clone IMAGE:2951662 3'
499D7	1	341	AW630825	NA	0	2	cDNA clone IMAGE:2969854 5'
62H5	10	423	AW651682	NA	0	2	cDNA clone IMAGE:2901099 5'
104A7	3	461	AW778854	NA	0	1	cDNA clone IMAGE:3037337 3'
484H1	9	453	AW780057	NA	0	1	cDNA clone IMAGE:3036046 3'
491E8	18	348	AW792856	NA	1.00E-164	2	UM0001 cDNA
65D11	64	648	AW810442	NA	0	3	ST0125 cDNA
596F6	49	623	AW813133	NA	0	1	ST0189 cDNA
518H1	131	386	AW819894	NA	1.00E-133	1	ST0294 cDNA
115A7	1	315	AW836389	NA	1.00E-169	3	LT0030 cDNA
486D9	32	237	AW837717	NA	1.00E-65	1	LT0042 cDNA
477B12	84	253	AW837808	NA	4.00E-67	1	LT0042 cDNA
121A11	253	444	AW842489	NA	1.00E-98	1	CN0032 cDNA
472E6	132	447	AW846856	NA	1.00E-149	1	CT0195 cDNA
164F9	1	462	AW856490	NA	0	1	CT0290 cDNA
103C4	23	366	AW859565	NA	0	1	CT0355 cDNA
129D3	81	295	AW866426	NA	1.00E-108	1	SN0024 cDNA
501F9	88	421	AW873028	NA	1.00E-170	3	cDNA clone IMAGE:3120038 3'
98G4	1	294	AW873326	NA	1.00E-107	1	cDNA clone IMAGE:3009400 3'
72D5	55	648	AW886511	NA	0	1	OT0083 cDNA
460A5	101	294	AW891344	NA	1.00E-102	1	NT0079 cDNA
459E9	196	260	AW945538	NA	8.00E-28	1	EN0024 cDNA
479H5	17	224	AW948395	NA	1.00E-102	1	FN0040 cDNA
165E7	2	599	AW949461	NA	0	1	MAGA cDNA
123G9	104	715	AW954112	NA	0	2	MAGC cDNA
183F3	84	503	AW954476	NA	1.00E-159	1	MAGC cDNA
196C6	8	189	AW954580	NA	5.00E-98	1	MAGC cDNA
515H10	1	512	AW955265	NA	0	1	MAGC cDNA
41E8	16	671	AW957139	NA	1.00E-145	2	MAGD cDNA
66A7	335	503	AW958538	NA	4.00E-85	1	MAGE cDNA
465G8	169	615	AW960484	NA	0	1	MAGF cDNA
519E6	44	290	AW960593	NA	1.00E-134	1	MAGF cDNA
594F4	306	571	AW963171	NA	1.00E-112	1	MAGH cDNA
155B2	30	673	AW964218	NA	0	3	MAGH cDNA
173B5	1	553	AW965078	NA	0	1	MAGI cDNA
176A6	7	312	AW965490	NA	1.00E-136	1	MAGI cDNA
498H9	1	456	AW965987	NA	0	2	MAGI cDNA
517D11	105	484	AW966098	NA	0	2	MAGI cDNA



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

166H7	63	559	AW967388	NA	0	1	MAGJ cDNA
462C8	69	212	AW967948	NA	2.00E-72	1	MAGJ cDNA
189C5	8	566	AW968561	NA	0	1	MAGJ cDNA
459C3	129	587	AW969359	NA	0	2	MAGK cDNA
174C1	155	527	AW969546	NA	1.00E-170	1	MAGK cDNA
191F6	158	543	AW973953	NA	1.00E-152	2	MAGM cDNA
461G9	311	437	AW974749	NA	7.00E-47	1	MAGN cDNA
104D1	182	594	AW993791	NA	0	1	BN0034 cDNA
188F5	734	1292	AY007110	NA	0	4	clone TCCCTA00084 mRNA sequence Length = 1656
48D7	692	1169	AY029066	NA	1.00E-76	4	Humanin (HN1) mRNA, complete cds Length = 1567
55B8	1802	2045	BC000141	NA	3.00E-96	1	Similar to myelocytomatosis oncogene, clone MGC:5183, mRNA
37A8	34	301	BC000374	NA	1.00E-101	1	ribosomal protein L18, clone MGC:8373, mRNA, complete cds
178E5	20	551	BC000408	NA	5.00E-53	1	acetyl-Coenzyme A acetyltransferase 2 (acetoacetyl Coenzyme A thiolase
596G2	27	263	BC000449	NA	3.00E-43	2	Similar to ubiquitin C, clone MGC:8448, mRNA, complete cds
179A3	693	1002	BC000514	NA	1.00E-160	3	ribosomal protein L13a, clone MGC:8547, mRNA, complete cds
158F10	169	522	BC000523	NA	1.00E-157	1	Similar to ribosomal protein S24, clone MGC:8595, mRNA, complete cds
515G5	34	270	BC000530	NA	7.00E-38	1	ribosomal protein L19, clone MGC:8653, mRNA, complete cds
39B6	286	1073	BC000590	NA	0	9	actin related protein 2/3 complex, subunit 2 (34 kD), clone MGC:1416,
169A4	929	1314	BC000672	NA	0	1	guanine nucleotide binding protein (G protein), beta polypeptide 2-lik
166H4	1350	1745	BC000771	NA	1.00E-169	8	Similar to tropomyosin 4, clone MGC:3261, mRNA, complete cds
331F9	482	949	BC000967	NA	0	1	clone IMAGE:3449287, mRNA, partial cds Length = 2156
526C6	633	829	BC001169	NA	1.00E-100	1	Similar to esterase 10, clone MGC:1873, mRNA, complete cds
135G12	1598	1766	BC001303	NA	6.00E-42	1	Similar to splicing factor, arginine/serine-rich 2 (SC-35), clone MGC:
491C6	613	714	BC001385	NA	3.00E-34	1	Similar to leucine rich repeat (in FLII) interacting protein 1, clone
108D10	234	641	BC001399	NA	2.00E-79	1	ferritin, heavy polypeptide 1, clone MGC:1749, mRNA, complete cds
196H5	1387	1899	BC001412	NA	6.00E-55	4	eukaryotic translation elongation factor 1 alpha 1, clone MGC:1332, mR
460F5	973	1350	BC001413	NA	0	1	clone IMAGE:3140866, mRNA Length = 1634
520C5	348	472	BC001632	NA	5.00E-34	1	Similar to NADH dehydrogenase (ubiquinone) flavoprotein 2 (24kD), clon
520D10	1729	2205	BC001637	NA	0	2	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, alpha subunit
524A1	564	922	BC001660	NA	1.00E-94	2	ribonuclease 6 precursor, clone MGC:1360, mRNA, complete cds
121E7	275	381	BC001697	NA	2.00E-26	1	Similar to ribosomal protein S15a, clone MGC:2466, mRNA, complete cds
109D1	2441	2835	BC001798	NA	1.00E-123	1	clone MGC:3157, mRNA, complete cds Length = 3041
180D9	741	921	BC001819	NA	5.00E-85	2	ribonuclease 6 precursor, clone MGC:3554, mRNA, complete cds
72H5	1264	2808	BC001854	NA	0	8	methionine adenosyltransferase II, alpha, clone MGC:4537, mRNA, comple
167H8	1099	1436	BC002409	NA	1.00E-49	1	actin, beta, clone MGC:8647, mRNA, complete cds Length = 1858
53H1	2398	2513	BC002538	NA	3.00E-41	1	serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

125B3	246	585	BC002711	NA	1.00E-40	1	cell division cycle 42 (GTP-binding protein, 25kD), clone MGC:3497, mR
331H8	201	557	BC002837	NA	0	1	clone MGC:4175, mRNA, complete cds Length = 1092
150C4	1699	2040	BC002845	NA	8.00E-29	1	eukaryotic translation elongation factor 1 alpha 1, clone MGC:3711, mR
70D7	345	850	BC002900	NA	0	1	Similar to proteasome (prosome, macropain) subunit, alpha type, 2, clo
476B5	1431	1761	BC002929	NA	1.00E-141	1	clone IMAGE:3954899, mRNA, partial cds Length = 2467
38D7	200	688	BC002971	NA	0	2	clone IMAGE:3543711, mRNA, partial cds Length = 1934
74A11	652	1724	BC003063	NA	0	5	Similar to likely ortholog of yeast ARV1, clone IMAGE:3506392, mRNA
105H12	1148	1370	BC003090	NA	1.00E-105	1	COP9 homolog, clone MGC:1297, mRNA, complete cds Length = 1637
50F4	8	301	BC003137	NA	1.00E-115	1	ribosomal protein S3, clone MGC:3657, mRNA, complete cds
175G9	93	216	BC003352	NA	1.00E-33	1	tumor protein, translationally-controlled 1, clone MGC:5308, mRNA, com
587E9	72	554	BC003358	NA	4.00E-60	2	ribosomal protein L10, clone MGC:5189, mRNA, complete cds
71F8	491	911	BC003406	NA	0	1	cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N-acet
512E11	308	372	BC003563	NA	2.00E-27	1	guanine nucleotide binding protein (G protein), gamma 5, clone MGC:196
118B11	76	343	BC003577	NA	1.00E-111	1	clone IMAGE:3544292, mRNA, partial cds Length = 826
107E3	9	634	BC003697	NA	0	1	clone MGC:5564, mRNA, complete cds Length = 2145
128D4	1408	1550	BC004186	NA	1.00E-34	1	guanine nucleotide binding protein, beta 1, clone MGC:2819, mRNA, comp
58H6	554	859	BC004245	NA	1.00E-171	2	ferritin, light polypeptide, clone MGC:10465, mRNA, complete cds
481D8	134	460	BC004258	NA	6.00E-73	1	hypothetical protein PRO1741, clone MGC:10753, mRNA, complete cds
520F6	160	1400	BC004317	NA	0	3	clone MGC:10924, mRNA, complete cds Length = 1837
489G7	511	787	BC004458	NA	2.00E-60	1	enolase 1, (alpha), clone MGC:4315, mRNA, complete cds
115B8	1162	1640	BC004521	NA	0	2	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, alpha subunit
118A2	1126	1369	BC004805	NA	4.00E-38	1	similar to Mus musculus, clone IMAGE:3584831, mRNA Length = 1910
73D2	1174	1751	BC004872	NA	0	1	clone MGC:11034, mRNA, complete cds Length = 2471
522E3	681	993	BC004900	NA	1.00E-175	10	ribosomal protein L13a, clone IMAGE:3545758, mRNA, partial cds
55G12	1	232	BC004928	NA	3.00E-68	1	clone MGC:10493, mRNA, complete cds Length = 2567
520C2	3	139	BC004994	NA	1.00E-31	1	myosin regulatory light chain, clone MGC:4405, mRNA, complete cds
460H4	1577	1923	BC005101	NA	0	1	clone IMAGE:3618561, mRNA Length = 2113
154F12	122	283	BC005128	NA	2.00E-46	1	ribosomal protein L7a, clone MGC:10607, mRNA, complete cds
592C8	647	925	BC005187	NA	2.00E-32	1	Similar to hypothetical protein, clone MGC:12182, mRNA, complete cds
591D1	726	837	BC005361	NA	5.00E-31	1	proteasome (prosome, macropain) subunit, alpha type, 4, clone MGC:1246
458A7	1307	1568	BC005816	NA	4.00E-98	1	Similar to deltex (Drosophila) homolog 1, clone IMAGE:3688330, mRNA, p
122C6	263	378	BC005928	NA	1.00E-29	1	S100 calcium-binding protein A8 (calgranulin A), clone MGC:14538, mRNA
47H11	273	854	BC006008	NA	0	1	clone IMAGE:4285740, mRNA Length = 1040

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

598E1	850	1226	BC006176	NA	0	2	clone IMAGE:4054156, mRNA, partial cds Length = 1423
175A1	570	887	BC006282	NA	1.00E-161	1	Similar to RIKEN cDNA 1110020N13 gene, clone MGC:10540
150H12	543	1098	BC006464	NA	0	1	calmodulin 2 (phosphorylase kinase, delta), clone MGC:2168
583E5	980	1246	BC006849	NA	1.00E-127	1	Similar to RIKEN cDNA 2410044K02 gene, clone MGC:5469
41H7	619	1308	BC007004	NA	0	2	Similar to oxysterol-binding protein-related protein 1, clone IMAGE:40
56C12	13	187	BC007063	NA	6.00E-27	1	peroxiredoxin 1, clone MGC:12514, mRNA, complete cds Length = 973
183C11	2986	3328	BC007203	NA	1.00E-169	1	hypothetical protein MGC10823, clone MGC:12957, mRNA, complete cds
109H10	1343	1627	BC007277	NA	1.00E-156	1	Similar to RIKEN cDNA 0610039P13 gene, clone MGC:15619, mRNA
588E11	423	1324	BC007299	NA	0	3	Similar to ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, al
164F12	72	336	BE002854	NA	1.00E-147	1	BN0090 cDNA
106A12	22	608	BE005703	NA	0	1	BN0120 cDNA
472E11	168	297	BE044364	NA	1.00E-66	1	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:3040218 3'
458H11	2	510	BE049439	NA	0	1	cDNA clone IMAGE:2834924 3'
46F7	18	527	BE061115	NA	0	1	BT0041 cDNA
105A8	1	166	BE085539	NA	3.00E-74	1	BT0669 cDNA
467F5	27	247	BE086076	NA	1.00E-115	1	BT0672 cDNA
469B6	5	188	BE091932	NA	6.00E-87	1	BT0733 cDNA
66D7	18	568	BE160822	NA	0	1	HT0422 cDNA
593F8	110	451	BE163106	NA	1.00E-165	1	HT0457 cDNA
468B10	1	461	BE168334	NA	0	1	HT0514 cDNA
192E1	1	602	BE176373	NA	0	1	HT0585 cDNA
109A9	100	377	BE177661	NA	1.00E-129	1	HT0598 cDNA
468B9	27	145	BE178880	NA	3.00E-31	1	HT0609 cDNA
526E11	6	222	BE217848	NA	1.00E-118	3	cDNA clone IMAGE:3174941 3'
115H2	226	227	BE218938	NA	2.00E-97	1	cDNA clone IMAGE:3176478 3'
126B3	1	509	BE222301	NA	1.00E-151	1	cDNA clone IMAGE:3166180 3'
195F2	123	470	BE222392	NA	4.00E-91	1	cDNA clone IMAGE:3166335 3'
170F7	1	375	BE242649	NA	0	1	acute myelogenous leukemia cell (FAB M1) Baylor-HGSC
459F10	35	432	BE247056	NA	5.00E-84	1	cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA
491G11	269	516	BE253336	NA	1.00E-116	1	cDNA clone IMAGE:3357826 5'
471H10	140	202	BE254064	NA	2.00E-26	1	cDNA clone IMAGE:3354554 5'
521H9	22	605	BE292793	NA	0	2	cDNA clone IMAGE:2987838 5'
472A9	33	436	BE297329	NA	0	1	cDNA clone IMAGE:3532809 5'
99E10	59	423	BE328818	NA	0	1	cDNA clone IMAGE:3181355 3'
192C3	4	335	BE348809	NA	0	1	cDNA clone IMAGE:3152438 3'
140G6	206	405	BE348955	NA	3.00E-85	1	cDNA clone IMAGE:3144625 3'
483D12	1	534	BE349148	NA	1.00E-160	1	cDNA clone IMAGE:3150275 3'
491H12	1	526	BE379820	NA	0	1	cDNA clone IMAGE:3510960 5'
481D5	212	333	BE464239	NA	3.00E-45	1	cDNA clone IMAGE:3194693 3'
469H8	31	179	BE466500	NA	2.00E-71	1	cDNA clone IMAGE:3195395 3'
56D11	72	353	BE467470	NA	1.00E-113	1	cDNA clone IMAGE:3212950 3'
471D10	1	249	BE502246	NA	1.00E-119	2	cDNA clone IMAGE:3197344 3'
471C2	255	486	BE502992	NA	1.00E-128	1	cDNA clone IMAGE:3214462 3'
56A2	291	669	BE538333	NA	1.00E-164	1	cDNA clone IMAGE:3454710 5'
191F12	488	587	BE547584	NA	9.00E-28	1	cDNA clone IMAGE:3461312 5'
525F3	5	236	BE550944	NA	1.00E-125	1	cDNA clone IMAGE:3233200 3'
473B7	46	228	BE551867	NA	4.00E-86	1	cDNA clone IMAGE:3195555 3'
467C6	48	404	BE569141	NA	1.00E-162	1	cDNA clone IMAGE:3681180 5'
110D3	193	473	BE613237	NA	1.00E-157	2	cDNA clone IMAGE:3856357 3'

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

140F9	20	344	BE614297	NA	1.00E-84	1	cDNA clone IMAGE:3906037 3'
473B12	63	216	BE645630	NA	3.00E-51	1	cDNA clone IMAGE:3288143 3' similar to contains
460C2	156	594	BE646470	NA	0	1	cDNA clone IMAGE:3292133 3'
172E5	329	491	BE670804	NA	7.00E-72	8	cDNA clone IMAGE:3285031 3' similar to gb:J04130
469D4	50	553	BE674685	NA	0	1	cDNA clone IMAGE:3292800 3' similar to TR:O60688
171F2	10	280	BE676054	NA	1.00E-96	1	cDNA clone IMAGE:3295273 3'
102E12	102	357	BE737348	NA	2.00E-93	1	cDNA clone IMAGE:3640772 5'
121C11	198	488	BE748663	NA	1.00E-150	1	cDNA clone IMAGE:3838675 3'
126D1	208	449	BE763412	NA	1.00E-122	1	NT0036 cDNA
172H5	52	581	BE768647	NA	0	1	FT0010 cDNA
176F12	178	646	BE792125	NA	0	1	cDNA clone IMAGE:3936215 5'
71A6	16	437	BE825187	NA	0	1	CN0028 cDNA
115F11	14	132	BE858152	NA	4.00E-60	1	cDNA clone IMAGE:3306735 3'
61A11	1	448	BE872245	NA	0	1	cDNA clone IMAGE:3850435 5'
171B8	155	377	BE875145	NA	8.00E-88	1	cDNA clone IMAGE:3891244 5'
108A6	370	539	BE876375	NA	7.00E-72	2	cDNA clone IMAGE:3889033 5'
166B1	1	472	BE877115	NA	1.00E-153	1	cDNA clone IMAGE:3887598 5'
63D11	208	496	BE878973	NA	1.00E-141	1	cDNA clone IMAGE:3895002 5'
525C3	208	400	BE879482	NA	7.00E-88	1	cDNA clone IMAGE:3894277 5'
526F7	335	603	BE881113	NA	1.00E-126	1	cDNA clone IMAGE:3894306 5'
152G12	122	659	BE881351	NA	0	2	cDNA clone IMAGE:3892808 5'
589H4	118	510	BE882335	NA	0	2	cDNA clone IMAGE:3907044 5'
51B12	199	631	BE884898	NA	3.00E-56	1	cDNA clone IMAGE:3908551 5'
114C1	286	530	BE887646	NA	1.00E-121	1	cDNA clone IMAGE:3913468 5'
120H2	282	706	BE888744	NA	0	1	cDNA clone IMAGE:3915133 5'
107D11	172	497	BE891242	NA	0	1	cDNA clone IMAGE:3917201 5'
513G4	263	662	BE891269	NA	0	1	cDNA clone IMAGE:3917064 5'
166B8	7	453	BE891928	NA	0	1	cDNA clone IMAGE:3920185 5'
185G9	23	390	BE894437	NA	1.00E-145	1	cDNA clone IMAGE:3918224 5'
189A8	211	485	BE896691	NA	1.00E-82	1	cDNA clone IMAGE:3925062 5'
598A7	78	301	BE897669	NA	1.00E-83	1	cDNA clone IMAGE:3923346 5'
191D9	189	575	BE899595	NA	0	3	cDNA clone IMAGE:3952215 5'
331F2	109	287	BF001438	NA	3.00E-96	2	cDNA clone IMAGE:3313517 3'
192C9	57	419	BF033741	NA	0	1	cDNA clone IMAGE:3857635 5'
117H4	73	454	BF056055	NA	0	1	cDNA clone IMAGE:3443950 3' similar to contains
104B10	6	412	BF058599	NA	1.00E-177	1	cDNA clone IMAGE:3477311 3'
331A12	13	164	BF059133	NA	1.00E-72	1	cDNA clone IMAGE:3480249 3'
40H1	81	507	BF060725	NA	0	1	7j59h07.x1 Soares_NSF_F8_9W_OT_PA_P_S1 cDNA clone
464F1	1	510	BF061421	NA	0	1	7j52c11.x1 Soares_NSF_F8_9W_OT_PA_P_S1 cDNA clone
71E11	1	441	BF105172	NA	0	1	cDNA clone IMAGE:4042560 5'
129D7	92	561	BF116224	NA	0	2	cDNA clone IMAGE:3570793 3'
145E10	83	624	BF131060	NA	0	1	cDNA clone IMAGE:4051731 5'
113B8	105	410	BF194880	NA	1.00E-157	1	cDNA clone IMAGE:3643600 3'
157E9	102	308	BF197153	NA	1.00E-108	2	cDNA clone IMAGE:3561933 3'
127H8	1	173	BF197762	NA	3.00E-92	1	cDNA clone IMAGE:3653139 3'
462D1	29	177	BF221780	NA	7.00E-78	1	cDNA clone IMAGE:3578603 3'
472B8	7	229	BF306204	NA	9.00E-70	1	cDNA clone IMAGE:4138980 5'
62A3	187	612	BF309911	NA	1.00E-162	1	cDNA clone IMAGE:4138171 5'
476G4	316	487	BF330908	NA	5.00E-66	1	BT0333 cDNA
524D1	86	258	BF339088	NA	8.00E-88	1	cDNA clone IMAGE:4182956 5'
58G4	13	606	BF341359	NA	0	2	cDNA clone IMAGE:4149195 5'
480E7	68	288	BF357523	NA	4.00E-97	1	HT0945 cDNA
116C9	8	170	BF364413	NA	2.00E-81	1	NN1068 cDNA
168F4	11	595	BF369763	NA	0	1	GN0120 cDNA
495F1	1	318	BF373638	NA	1.00E-108	2	FT0176 cDNA
98E1	81	499	BF377518	NA	0	2	TN0115 cDNA

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

169C5	17	500	BF380732	NA	0	1	UT0073 cDNA
464E11	12	272	BF432643	NA	1.00E-129	1	cDNA clone IMAGE:3406531 3'
183G2	119	548	BF433058	NA	1.00E-112	1	cDNA clone IMAGE:3565500 3'
473F9	21	411	BF433353	NA	0	1	cDNA clone IMAGE:3703678 3'
117C9	179	462	BF433657	NA	2.00E-99	1	cDNA clone IMAGE:3702965 3' similar to contains
514A3	170	245	BF435621	NA	2.00E-34	2	Lupski_sciatic_nerve cDNA clone IMAGE:3394901 3' similar to
459G8	78	417	BF445405	NA	1.00E-179	1	cDNA clone IMAGE:3699337 3'
483D10	12	474	BF447885	NA	0	1	cDNA clone IMAGE:3706147 3'
519H12	319	394	BF449068	NA	3.00E-27	1	cDNA clone IMAGE:3579069 3'
584H11	78	487	BF475501	NA	7.00E-60	1	Lupski_sciatic_nerve cDNA clone IMAGE:3396242 3'
471G8	214	400	BF478238	NA	9.00E-61	1	cDNA clone IMAGE:3700476 3' similar to contains
109F10	20	329	BF507849	NA	1.00E-172	1	UI-H-BI4-apv-h-02-0-UI.s1 NCI_CGAP_Sub8 cDNA clone IMAGE:3088755 3'
173E10	147	231	BF510393	NA	1.00E-39	1	UI-H-BI4-aon-h-07-0-UI.s1 NCI_CGAP_Sub8 cDNA clone IMAGE:3085689 3'
464D1	32	460	BF513602	NA	1.00E-106	1	UI-H-BW1-amt-a-11-0-UI.s1 NCI_CGAP_Sub7 cDNA clone IMAGE:3070773 3'
118D9	108	248	BF514341	NA	4.00E-46	1	UI-H-BW1-and-h-10-0-UI.s1 NCI_CGAP_Sub7 cDNA clone IMAGE:3082218 3'
462E3	29	197	BF515538	NA	1.00E-87	1	UI-H-BW1-anq-b-09-0-UI.s1 NCI_CGAP_Sub7 cDNA clone IMAGE:3083081 3'
459C7	70	661	BF525720	NA	0	1	cDNA clone IMAGE:4212877 5'
462F8	151	684	BF526421	NA	0	1	cDNA clone IMAGE:4213536 5'
174H8	1	387	BF530382	NA	0	1	cDNA clone IMAGE:4214327 5'
477C5	183	689	BF569545	NA	0	1	cDNA clone IMAGE:4310435 5'
46C3	2	626	BF571362	NA	0	1	cDNA clone IMAGE:4252059 5'
465B1	350	508	BF591040	NA	3.00E-39	1	cDNA clone IMAGE:3319177 3'
477G7	6	127	BF592138	NA	2.00E-57	1	cDNA clone IMAGE:3573334 3'
180B2	53	264	BF593930	NA	1.00E-114	1	nab48e03.x1 Soares_NSF_F8_9W_OT_PA_P_S1 cDNA clone
185F12	139	578	BF663116	NA	0	1	cDNA clone IMAGE:4308392 5'
471F9	77	590	BF667621	NA	0	1	cDNA clone IMAGE:4278888 5'
41D10	16	664	BF668050	NA	0	2	cDNA clone IMAGE:4279827 5'
491G6	87	275	BF670567	NA	1.00E-97	1	cDNA clone IMAGE:4290961 5'
112B4	17	303	BF671020	NA	1.00E-120	1	cDNA clone IMAGE:4292143 5'
194H6	6	196	BF678298	NA	1.00E-100	1	cDNA clone IMAGE:4248916 5'
514H9	96	179	BF691178	NA	2.00E-32	1	cDNA clone IMAGE:4332544 5'
99H1	146	327	BF691895	NA	2.00E-69	1	cDNA clone IMAGE:4333460 5'
465E12	29	681	BF725383	NA	0	1	cDNA (Un-normalized, unamplified): BX cDNA clone
69B10	17	96	BF726114	NA	3.00E-37	1	cDNA (Un-normalized, unamplified): BY cDNA clone
151H10	18	366	BF732404	NA	0	1	cDNA clone IMAGE:3434918 3'
124D2	36	378	BF736784	NA	1.00E-179	1	KT0018 cDNA
463H5	30	152	BF740863	NA	3.00E-56	1	HB0031 cDNA
469D2	164	398	BF744387	NA	6.00E-74	1	BT0636 cDNA
72E1	17	128	BF749089	NA	1.00E-44	3	BN0386 cDNA
98C3	9	515	BF758480	NA	0	1	CT0539 cDNA
46E11	26	162	BF773126	NA	5.00E-57	1	IT0048 cDNA
124C8	32	257	BF773393	NA	1.00E-115	1	IT0039 cDNA
166G8	312	549	BF797348	NA	1.00E-108	1	cDNA clone IMAGE:4340490 5'
146D8	222	288	BF805164	NA	5.00E-29	1	CI0173 cDNA
49G4	99	460	BF813798	NA	0	5	CI0084 cDNA
469F8	31	455	BF816700	NA	4.00E-88	1	CI0128 cDNA
98C1	37	375	BF818594	NA	1.00E-163	1	CI0184 cDNA
62C9	166	359	BF821451	NA	3.00E-28	1	RT0038 cDNA
51F8	28	367	BF827734	NA	1.00E-175	1	HN0025 cDNA
56F7	15	429	BF845167	NA	9.00E-84	1	HT1035 cDNA
476D11	1	303	BF869167	NA	1.00E-165	2	ET0119 cDNA

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

476H4	12	262	BF875575	NA	1.00E-131	2	ET0100 cDNA
68D6	242	452	BF877979	NA	3.00E-98	1	ET0109 cDNA
37C10	1	381	BF897042	NA	0	3	MT0179 cDNA
465B3	63	193	BF898285	NA	5.00E-60	1	MT0229 cDNA
331C7	274	485	BF899464	NA	3.00E-83	1	MT0211 cDNA
72D8	50	334	BF904425	NA	1.00E-152	1	MT0245 cDNA
159F6	333	417	BF906114	NA	2.00E-35	1	MT0267 cDNA
108H5	6	409	BF926187	NA	0	1	NT0193 cDNA
71F9	192	286	BF928644	NA	1.00E-43	1	NT0216 cDNA
481D4	27	334	BF938959	NA	1.00E-102	1	cDNA clone IMAGE:3706589 3'
189B11	69	183	BF939014	NA	4.00E-29	1	cDNA clone IMAGE:3706558 3'
115G2	85	399	BF940103	NA	1.00E-177	1	cDNA clone IMAGE:3439383 3'
463B3	304	449	BF940291	NA	8.00E-62	1	cDNA clone IMAGE:3577096 3'
122G1	8	339	BF950968	NA	1.00E-170	1	NN1186 cDNA
470B4	251	320	BF962743	NA	2.00E-28	1	NN0045 cDNA
516D5	39	208	BF962934	NA	5.00E-69	1	NN0045 cDNA
593G10	242	597	BF965068	NA	1.00E-177	2	cDNA clone IMAGE:4356776 5'
101A1	6	356	BF965438	NA	1.00E-132	1	cDNA clone IMAGE:4356453 5'
477F3	25	653	BF965960	NA	0	1	cDNA clone IMAGE:4365102 5'
588E4	67	562	BF966028	NA	1.00E-134	1	cDNA clone IMAGE:4364887 5'
467F10	11	282	BF966049	NA	1.00E-122	1	cDNA clone IMAGE:4364941 5'
59E12	81	355	BF966269	NA	1.00E-144	1	cDNA clone IMAGE:4375212 5'
480E11	416	755	BF968628	NA	8.00E-41	1	cDNA clone IMAGE:4359351 5'
37H8	200	500	BF968963	NA	1.00E-148	1	cDNA clone IMAGE:4358390 5'
98H5	398	397	BF969990	NA	1.00E-133	1	cDNA clone IMAGE:4360514 5'
597C3	15	571	BF971075	NA	0	1	cDNA clone IMAGE:4358911 5'
101F1	188	305	BF971984	NA	6.00E-42	1	cDNA clone IMAGE:4329095 5'
464H5	246	602	BF980139	NA	0	1	cDNA clone IMAGE:4373963 3'
63B6	130	597	BF981080	NA	0	1	cDNA clone IMAGE:4401411 5'
167A3	223	418	BF981263	NA	1.00E-101	1	cDNA clone IMAGE:4400757 5'
512C12	1	494	BF981634	NA	0	1	cDNA clone IMAGE:4397101 5'
187H7	26	433	BF997765	NA	1.00E-180	2	GN0127 cDNA
458E4	54	242	BG006820	NA	3.00E-62	1	GN0227 cDNA
106A7	1	604	BG024761	NA	0	1	cDNA clone IMAGE:4363858 5'
459H6	1	524	BG026279	NA	0	1	cDNA clone IMAGE:4386607 5'
460B9	264	512	BG028577	NA	1.00E-105	1	cDNA clone IMAGE:4387518 5'
49E9	100	537	BG033909	NA	0	1	cDNA clone IMAGE:4402729 5'
54C10	1	582	BG033953	NA	0	2	cDNA clone IMAGE:4402647 5'
182B3	1	489	BG034799	NA	0	1	cDNA clone IMAGE:4413514 5'
166F8	13	586	BG036101	NA	0	1	cDNA clone IMAGE:4414135 5'
104A12	56	240	BG054966	NA	1.00E-100	1	cDNA clone IMAGE:3441756 3'
171H10	4	269	BG056668	NA	3.00E-85	1	cDNA clone IMAGE:4169714 3'
146G11	13	522	BG057282	NA	0	5	cDNA clone IMAGE:4140477 3' similar to contains
472A11	69	358	BG057892	NA	1.00E-145	1	7776e08.x1 Lupski_dorsal_root_ganglion cDNA clone
513B4	2	418	BG058599	NA	0	1	cDNA clone IMAGE:4141266 3'
134B4	201	519	BG058739	NA	1.00E-75	4	cDNA clone IMAGE:4140551 3'
163E7	83	327	BG110599	NA	1.00E-126	1	cDNA clone IMAGE:4368492 5'
118A7	180	577	BG110835	NA	0	1	cDNA clone IMAGE:4366502 5'
37F12	38	649	BG111212	NA	0	5	cDNA clone IMAGE:4369233 5'
464A10	57	673	BG111773	NA	0	1	cDNA clone IMAGE:4372861 5'
464A7	56	411	BG118529	NA	1.00E-167	1	cDNA clone IMAGE:4443519 5'
458D8	186	715	BG121288	NA	0	1	cDNA clone IMAGE:4450407 5'
166H12	25	339	BG149747	NA	1.00E-177	1	cDNA clone IMAGE:3367325 3'
51H4	4	224	BG149986	NA	1.00E-121	1	cDNA clone IMAGE:3406766 3'
75G3	70	280	BG150273	NA	1.00E-115	4	cDNA clone IMAGE:3442930 3'
500F10	18	677	BG163237	NA	0	3	cDNA clone IMAGE:4446802 5'
519E4	39	575	BG164898	NA	0	3	cDNA clone IMAGE:4453661 5'
119E5	21	276	BG165998	NA	1.00E-120	1	cDNA clone IMAGE:4456017 5'

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

519B8	29	214	BG166279	NA	5.00E-86	1	cDNA clone IMAGE:4455496 5'
103B8	377	499	BG170647	NA	1.00E-45	1	cDNA clone IMAGE:4426826 5'
470F8	184	307	BG180098	NA	4.00E-63	1	cDNA clone IMAGE:4430875 5'
585C4	4	98	BG230563	NA	5.00E-46	1	cDNA clone IMAGE:4143330 3' similar to contains
48G7	2	298	BG231557	NA	1.00E-119	1	cDNA clone IMAGE:4142471 3'
73C4	188	430	BG231805	NA	1.00E-130	1	cDNA clone IMAGE:4142814 3'
148H4	2	525	BG231961	NA	1.00E-133	12	cDNA clone IMAGE:4143104 3'
484B5	364	533	BG235942	NA	5.00E-81	1	cDNA clone IMAGE:4141389 3'
137B5	97	523	BG236015	NA	6.00E-87	1	cDNA clone IMAGE:4141365 3'
489B11	12	294	BG236084	NA	4.00E-75	2	cDNA clone IMAGE:4141856 3' similar to
45H2	1	492	BG249224	NA	1.00E-139	1	cDNA clone IMAGE:4470038 5'
172F1	1	562	BG254117	NA	0	1	cDNA clone IMAGE:4475233 5'
588F3	66	202	BG254292	NA	9.00E-43	1	cDNA clone IMAGE:4477042 5'
583B5	8	183	BG272304	NA	7.00E-45	1	cDNA clone IMAGE:4257371
73A4	119	311	BG282346	NA	3.00E-42	1	cDNA clone IMAGE:4545131 5'
586A2	99	511	BG283706	NA	1.00E-160	1	cDNA clone IMAGE:4519866 5'
152F12	1	676	BG286649	NA	0	5	cDNA clone IMAGE:4499224 5'
479A12	228	601	BG286817	NA	1.00E-142	1	cDNA clone IMAGE:4500259 5'
99B4	1	449	BG288308	NA	0	2	cDNA clone IMAGE:4512706 5'
584G2	54	468	BG288554	NA	0	1	cDNA clone IMAGE:4517068 5'
464E2	244	549	BG289048	NA	1.00E-159	2	cDNA clone IMAGE:4512868 5'
113H1	149	436	BG289347	NA	1.00E-161	1	cDNA clone IMAGE:4516241 5'
39G6	1	503	BG290577	NA	0	1	cDNA clone IMAGE:4517986 5'
48D8	38	440	BG291970	NA	0	1	cDNA clone IMAGE:4517457 5'
60E7	1	398	BG319445	NA	0	4	Keratinocyte Subtraction Library- Downregulated Transcripts Homo
168C2	3	221	BG319498	NA	1.00E-111	2	Keratinocyte Subtraction Library- Downregulated Transcripts Homo
461B12	1	393	BG387694	NA	0	2	cDNA clone IMAGE:4521084 5'
174G11	3	542	BG391695	NA	0	1	cDNA clone IMAGE:4537243 5'
597A4	164	612	BG396292	NA	0	2	cDNA clone IMAGE:4581548 5'
190B10	469	667	BG397564	NA	3.00E-62	2	cDNA clone IMAGE:4564968 5'
593C3	35	461	BG403635	NA	0	1	cDNA clone IMAGE:4526364 5'
57H10	121	495	BG413494	NA	0	1	Tj54e05.x1 Soares_NSF_F8_9W_OT_PA_P_S1 cDNA clone
155G11	119	347	BG424974	NA	3.00E-52	1	cDNA clone IMAGE:4591378 5'
45G3	17	332	BG427404	NA	1.00E-159	1	cDNA clone IMAGE:4612518 5'
185C9	16	185	BG432194	NA	3.00E-62	1	cDNA clone IMAGE:4610035 5'
331D4	60	386	BG434865	NA	1.00E-179	1	cDNA clone IMAGE:4605025 5'
464H12	97	295	BG438232	NA	1.00E-105	1	cDNA clone IMAGE:4622433 5'
521F2	280	534	BG468330	NA	1.00E-111	1	cDNA clone IMAGE:4644153 5'
56F6	167	582	BG473228	NA	0	2	cDNA clone IMAGE:4646938 5'
61G3	8	185	BG473813	NA	2.00E-95	1	cDNA clone IMAGE:4647416 5'
119E9	7	377	BG482798	NA	1.00E-178	3	cDNA clone IMAGE:4616253 5'
125F8	47	318	BG489375	NA	1.00E-149	1	cDNA clone IMAGE:4636634 5'
73H3	55	154	BG493253	NA	5.00E-49	1	cDNA clone IMAGE:4672787 5'
111H9	79	754	BG497765	NA	0	1	cDNA clone IMAGE:4665582 5'
171A10	74	476	BG501063	NA	0	1	cDNA clone IMAGE:4668643 5'
471G1	65	197	BG501895	NA	1.00E-63	1	cDNA clone IMAGE:4654344 5'
111E1	16	181	BG503693	NA	4.00E-85	2	cDNA clone IMAGE:4657381 5'
121B6	77	553	BG505271	NA	0	2	cDNA clone IMAGE:4664028 5'
599F2	379	484	BG505379	NA	3.00E-45	1	cDNA clone IMAGE:4657121 5'
105C1	208	646	BG505961	NA	0	1	cDNA clone IMAGE:4072795 5'
521E10	23	440	BG506168	NA	0	4	cDNA clone IMAGE:4072226 5'
119A5	188	596	BG506472	NA	1.00E-103	1	cDNA clone IMAGE:4070820 5'
479D7	34	308	BG527060	NA	1.00E-121	1	cDNA clone IMAGE:4685209 5'
71H3	27	542	BG527658	NA	0	1	cDNA clone IMAGE:4685854 5'
186A7	2	336	BG531486	NA	5.00E-96	1	cDNA clone IMAGE:4699409 5'
187H11	186	662	BG532345	NA	0	1	cDNA clone IMAGE:4699954 5'
64G4	166	650	BG532470	NA	0	1	cDNA clone IMAGE:4699923 5'

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

486E6	224	561	BG533994	NA	1.00E-168	5	cDNA clone IMAGE:4663102 5'
116F9	188	392	BG536394	NA	7.00E-67	1	cDNA clone IMAGE:4689645 5'
75C7	1	452	BG536641	NA	0	2	cDNA clone IMAGE:4691078 5'
175D10	3	114	BG537502	NA	2.00E-49	1	cDNA clone IMAGE:4690780 5'
599E1	356	659	BG538731	NA	1.00E-111	1	cDNA clone IMAGE:4691392 5'
191H9	80	631	BG541679	NA	0	1	cDNA clone IMAGE:4695805 5'
466A4	1	408	BG542394	NA	0	1	cDNA clone IMAGE:4696046 5'
67G12	29	698	BG547561	NA	0	3	cDNA clone IMAGE:4703738 5'
467B6	60	234	BG547627	NA	3.00E-93	2	cDNA clone IMAGE:4703608 5'
488F8	2041	2132	D10495	NA	9.00E-31	1	mRNA for protein kinase C delta-type, complete cds Length = 2163
525B6	21	222	D17042	NA	1.00E-100	2	HepG2 partial cDNA, clone hmd3f07m5 Length = 222
471E4	2287	2877	D17391	NA	0	2	mRNA for alpha 4(IV) collagen, C-terminal Length = 3558
134D8	561	694	D28589	NA	2.00E-59	1	mRNA (KIAA00167), partial sequence Length = 792
112D1	1614	2159	D30036	NA	0	1	mRNA for phosphatidylinositol transfer protein (PI-TPalpha), complete
98H4	1	357	F11941	NA	1.00E-180	1	brain cDNA cDNA clone c-33f05
585G7	15	264	F13765	NA	1.00E-136	1	(1992) cDNA clone FII112 3'
47D11	1	296	F35665	NA	1.00E-146	1	cDNA clone sH5-000005-0/E06
465F5	34	225	H03298	NA	1.00E-70	1	cDNA clone IMAGE:151865 5'
481A6	43	362	H51796	NA	1.00E-123	1	spleen 1NFLS cDNA clone IMAGE:194250 5'
100E3	116	205	H56344	NA	1.00E-37	1	spleen 1NFLS cDNA clone IMAGE:203711 5' similar to
464F9	10	398	H57221	NA	5.00E-45	2	spleen 1NFLS cDNA clone IMAGE:204710 5'
66C3	10	77	H78395	NA	8.00E-28	1	liver spleen 1NFLS cDNA clone IMAGE:233597 3'
105D11	63	365	H81660	NA	1.00E-154	1	2NbHM cDNA clone IMAGE:249138 5'
60G10	1	189	H86841	NA	1.00E-100	1	cDNA clone IMAGE:220310 5' similar to SP:S44265
470D6	1	314	H92914	NA	1.00E-148	1	Soares_pineal_gland_N3HPG cDNA clone IMAGE:231988 3'
483E5	839	944	K02885	NA	1.00E-26	1	T-cell receptor active beta-chain V-D-J-beta-1.2-C-beta-1 (TCRB) mRNA,
516F5	1753	2047	L11284	NA	1.00E-131	1	Homosapiens ERK activator kinase (MEK1) mRNA Length = 2222
525E11	105	738	L40557	NA	1.00E-112	1	perforin (PRF1) mRNA, 3' end Length = 818
74F1	661	826	M11124	NA	5.00E-41	1	MHC HLA DQ alpha-chain mRNA from DRw9 cell line Length = 835
121E3	1323	1870	M12824	NA	0	4	T-cell differentiation antigen Leu-2/T8 mRNA, partial cds Length = 197
66H2	713	1190	M17783	NA	0	1	glia-derived nexin (GDN) mRNA, 5' end Length = 1191
41A9	698	883	M32577	NA	4.00E-28	1	MHC HLA-DQ beta mRNA, complete cds Length = 1104
478D10	436	605	M55674	NA	4.00E-33	1	(clone M212) phosphoglycerate mutase 2 (muscle specific isozyme) (PGAM
469B8	5	377	N20190	NA	0	1	2NbHM cDNA clone IMAGE:264340 3'
109E4	21	449	N23307	NA	0	2	2NbHM cDNA clone IMAGE:267836 3'
171D9	80	381	N25486	NA	1.00E-147	1	2NbHM cDNA clone IMAGE:264068 5'
73H12	1	398	N27575	NA	1.00E-144	2	2NbHM cDNA clone IMAGE:264499 5'
490A11	25	475	N31700	NA	0	1	2NbHM cDNA clone IMAGE:267025 5'
599D6	185	483	N34261	NA	1.00E-150	1	2NbHM cDNA clone IMAGE:267967 5'
188F3	112	357	N36787	NA	1.00E-107	1	2NbHM cDNA clone IMAGE:273145 3'
465B10	7	558	N49836	NA	0	1	yz08a11.s1 Soares_multiple_sclerosis_2NbHMSP cDNA
40D4	199	575	N58136	NA	1.00E-153	1	spleen 1NFLS cDNA clone IMAGE:247587 3'
183E2	227	366	N80578	NA	2.00E-53	1	Soares_fetal_lung_NbHL19W cDNA clone IMAGE:300873 3' similar to
139G6	9	269	N94511	NA	1.00E-125	1	zb80g04.s1 Soares_senescent_fibroblasts_NbHSF cDNA
126B8	1	256	N99577	NA	1.00E-137	2	spleen 1NFLS cDNA clone IMAGE:295067 5'



**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

118A10	893	5056	NC_001807	NA	0	7	mitochondrion, complete genome Length = 16568
41B2	1	471	NM_000873	NA	0	1	intercellular adhesion molecule 2 (ICAM2), mRNA Length = 1035
62A8	1877	1958	NM_000958	NA	1.00E-37	4	prostaglandin E receptor 4 (subtype EP4) (PTGER4), mRNA
179H10	53	265	NM_000983	NA	1.00E-44	1	ribosomal protein L22 (RPL22), mRNA Length = 602
331D3	71	343	NM_001024	NA	1.00E-144	5	ribosomal protein S21 (RPS21), mRNA Length = 343
41G10	3162	3565	NM_001243	NA	3.00E-47	1	tumor necrosis factor receptor superfamily, member 8 (TNFRSF8), mRNA
591E9	1027	1483	NM_002211	NA	0	2	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29
497C6	4946	5064	NM_002460	NA	9.00E-36	2	Interferon regulatory factor 4 (IRF4), mRNA Length = 5065
597D8	1232	1461	NM_005356	NA	2.00E-48	1	lymphocyte-specific protein tyrosine kinase (LCK), mRNA Length = 2032
166G2	50	319	NM_005745	NA	2.00E-90	1	accessory proteins BAP31/BAP29 (DXS1357E), mRNA Length = 1314
468D2	3245	3480	NM_011086	NA	8.00E-63	1	similar to Mus phosphoinositide kinase, fyve-containing (Pikfyve), mRNA
599A4	1335	1630	NM_014644	NA	2.00E-69	1	KIAA0477 gene product (KIAA0477), mRNA Length = 5676
69C2	818	1361	NM_014905	NA	0	3	glutaminase (GLS), mRNA Length = 4606
495C6	622	838	NM_015435	NA	1.00E-104	1	double ring-finger protein, Dorfin (DORFIN), mRNA Length = 1640
463D11	480	632	NM_015995	NA	1.00E-77	1	Kruppel-like factor 13 (KLF13), mRNA Length = 1079
49C10	817	964	NM_019604	NA	3.00E-28	1	class-I MHC-restricted T cell associated molecule (CRTAM), mRNA
188E4	390	643	NM_019997	NA	6.00E-79	1	similar to Mus musculus cDNA sequence AB041581 (AB041581)
103H2	1421	1662	NM_021432	NA	3.00E-66	1	similar to Mus RIKEN cDNA 1110020M21 gene (1110020M21Rik)
465G11	1685	1761	NM_021777	NA	1.00E-34	1	a disintegrin and metalloproteinase domain 28 (ADAM28), transcript var
166D8	1265	1951	NM_022152	NA	0	1	PP1201 protein (PP1201), mRNA Length = 2309
459G6	1	123	NM_024567	NA	2.00E-36	1	hypothetical protein FLJ21616 (FLJ21616), mRNA Length = 1858
461G2	667	1182	NM_025977	NA	1.00E-28	1	similar to Mus RIKEN cDNA 2510048L02 gene (2510048L02Rik)
62A5	759	1200	NM_030780	NA	0	1	folate transporter/carrier (LOC81034), mRNA Length = 2534
52C11	1277	1954	NM_030788	NA	0	1	DC-specific transmembrane protein (LOC81501), mRNA Length = 1974
108A7	910	3014	NM_031419	NA	0	4	molecule possessing ankyrin repeats induced by lipopolysaccharide
74E11	47	464	NM_031435	NA	0	1	hypothetical protein DKFZp564I0422 (DKFZP564I0422), mRNA
56B3	1518	1962	NM_031453	NA	1.00E-176	1	hypothetical protein MGC11034 (MGC11034), mRNA Length = 3301
46F2	118	663	NM_031480	NA	1.00E-105	1	hypothetical protein AD034 (AD034), mRNA Length = 2495
192B3	51	290	R11455	NA	1.00E-105	1	spleen 1NFLS cDNA clone IMAGE:129880 5' similar to
458B9	43	359	R64054	NA	1.00E-159	1	cDNA clone IMAGE:139969 5'
169F11	1	429	R85137	NA	0	1	brain N2b4HB55Y cDNA clone IMAGE:180492 5'
465B5	16	392	R88125	NA	1.00E-164	1	cDNA clone IMAGE:186850 5'
477F8	1	525	T77017	NA	0	1	1NIB cDNA clone IMAGE:23326 5'
39G11	162	455	T80378	NA	1.00E-145	1	1NIB cDNA clone IMAGE:24693 5'
107D7	1	371	T80654	NA	0	1	spleen 1NFLS cDNA clone IMAGE:108950 5'
465A1	6	314	T85880	NA	1.00E-114	1	spleen 1NFLS cDNA clone IMAGE:112441 5'
48D12	2300	2533	U08015	NA	1.00E-128	1	NF-ATc mRNA, complete cds Length = 2743

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

121F1	13	380	U46388	NA	1.00E-150	1	cell line Patu 8988t cDNA clone xs425
127B12	3	330	U52054	NA	0	4	S6 H-8 mRNA expressed in chromosome 6-suppressed melanoma cells
487C2	4054	4187	U52682	NA	2.00E-28	1	lymphocyte specific interferon regulatory factor/interferon regulatory
110B3	1404	2081	U53530	NA	0	1	cytoplasmic dynein 1 heavy chain mRNA, partial cds Length = 2694
466C8	34	175	U75805	NA	3.00E-47	1	cDNA clone f46
148G12	1513	1639	U87954	NA	1.00E-27	1	erbB3 binding protein EBP1 mRNA, complete cds Length = 1648
70A4	564	1381	U94359	NA	0	2	glycogenin-2 like mRNA sequence Length = 4066
158E4	843	945	U97075	NA	1.00E-33	1	FLICE-like inhibitory protein short form mRNA, complete cds
459A1	227	446	W00466	NA	1.00E-60	1	2NbHM cDNA clone IMAGE:291193 5'
459A2	60	350	W00491	NA	1.00E-126	1	2NbHM cDNA clone IMAGE:291255 5' similar to
459B1	76	551	W02600	NA	0	1	spleen 1NFLS cDNA clone IMAGE:296099 5'
166C10	10	415	W16552	NA	0	1	Soares_fetal_lung_NbHL19W cDNA clone IMAGE:301703 5'
471C6	3	383	W19201	NA	1.00E-149	1	Soares_fetal_lung_NbHL19W cDNA clone IMAGE:303118 5' similar to
520A8	75	382	W19487	NA	1.00E-154	1	zb36f09.r1 Soares_parathyroid_tumor_NbHPA cDNA clone
459B7	57	158	W25068	NA	9.00E-50	1	Soares_fetal_lung_NbHL19W cDNA clone IMAGE:308696 5'
188D3	39	283	W26193	NA	2.00E-91	1	randomly primed sublibrary cDNA
75B12	8	386	W27656	NA	1.00E-166	1	randomly primed sublibrary cDNA
163F8	74	330	W47229	NA	1.00E-117	1	zc39c01.r1 Soares_senescent_fibroblasts_NbHSF cDNA
478E6	2	322	W56487	NA	3.00E-51	1	zc59c07.r1 Soares_parathyroid_tumor_NbHPA cDNA clone
73H4	76	297	W72392	NA	1.00E-121	1	Soares_fetal_heart_NbHH19W cDNA clone IMAGE:345661 3'
66D5	1	457	W74397	NA	0	3	Soares_fetal_heart_NbHH19W cDNA clone IMAGE:345236 5'
496D4	85	450	W79598	NA	0	1	Soares_fetal_heart_NbHH19W cDNA clone IMAGE:347020 5'
165D1	108	287	W80882	NA	4.00E-94	1	Soares_fetal_heart_NbHH19W cDNA clone IMAGE:347240 5'
463G1	5	406	W86427	NA	0	1	zh61c11.s1 Soares_fetal_liver_spleen_1NFLS_S1 cDNA
469G11	1276	1621	X06180	NA	0	1	mRNA for CD7 antigen (gp40) Length = 1656
113E11	126	885	X65318	NA	0	1	Cloning vector pGEMEX-2 Length = 3995
482E1	921	1168	X79536	NA	1.00E-102	1	mRNA for hnRNPcore protein A1 Length = 1198
123G8	408	848	XM_002068	NA	8.00E-73	1	glutamate-ammonia ligase (glutamine synthase) (GLUL), mRNA
185E1	508	734	XM_002158	NA	1.00E-27	1	proteasome (prosome, macropain) subunit, alpha type, 5 (PSMA5), mRNA
71A9	1131	1252	XM_002269	NA	4.00E-29	1	ARP3 (actin-related protein 3, yeast) homolog (ACTR3), mRNA
49G7	1	257	XM_003189	NA	1.00E-142	3	similar to eukaryotic translation initiation factor 4A, isoform 2 (H)
128B5	783	980	XM_003304	NA	6.00E-41	1	toll-like receptor 2 (TLR2), mRNA Length = 2600
185G10	853	1057	XM_003507	NA	2.00E-26	1	small inducible cytokine subfamily B (Cys-X-Cys), member 5 (epithelial
41C9	588	1221	XM_003593	NA	0	1	CD38 antigen (p45) (CD38), mRNA Length = 1227
156C4	127	270	XM_004020	NA	6.00E-71	1	ribosomal protein S23 (RPS23), mRNA Length = 488
66E2	1344	1577	XM_004500	NA	1.00E-46	1	CD83 antigen (activated B lymphocytes, immunoglobulin superfamily) (CD
61C6	474	987	XM_004611	NA	2.00E-80	1	Ras homolog enriched in brain 2 (RHEB2), mRNA Length = 987
184A7	971	1361	XM_004720	NA	0	1	hypothetical protein FLJ11000 (FLJ11000), mRNA Length = 1680

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

128E6	580	741	XM_004839	NA	5.00E-38	1	pre-B-cell colony-enhancing factor (PBEF), mRNA Length = 2377
55A11	1096	1305	XM_005162	NA	1.00E-60	1	GTP-binding protein overexpressed in skeletal muscle (GEM), mRNA
519C4	1307	1441	XM_005543	NA	1.00E-69	1	aquaporin 3 (AQP3), mRNA Length = 1441
129F1	1854	2367	XM_005693	NA	0	1	inositol polyphosphate-5-phosphatase, 40kD (INPP5A), mRNA
522C10	700	916	XM_005698	NA	7.00E-53	1	programmed cell death 4 (PDCD4), mRNA Length = 1622
180G6	1884	2290	XM_005799	NA	1.00E-166	1	Integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29
55F4	2573	2748	XM_005883	NA	4.00E-73	1	early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA
492H7	976	1176	XM_005980	NA	4.00E-33	1	proteoglycan 1, secretory granule (PRG1), mRNA Length = 1176
476B4	1541	1918	XM_006741	NA	0	1	hypothetical protein FLJ10701 (FLJ10701), mRNA Length = 2299
493H5	145	379	XM_006881	NA	2.00E-56	1	interleukin 22 (IL22), mRNA Length = 676
499B4	11117	11410	XM_007156	NA	3.00E-34	1	spastic ataxia of Charlevoix-Saguenay (sacsin) (SACS), mRNA
183D7	4270	4376	XM_007189	NA	5.00E-37	1	forkhead box O1A (rhabdomyosarcoma) (FOXO1A), mRNA Length = 5037
115B6	4151	4408	XM_007606	NA	2.00E-50	2	thrombospondin 1 (THBS1), mRNA Length = 5719
587B4	31	264	XM_007650	NA	1.00E-114	3	beta-2-microglobulin (B2M), mRNA Length = 918
598H5	206	300	XM_008062	NA	1.00E-31	1	ribosomal protein S15a (RPS15A), mRNA Length = 435
73E4	3252	3505	XM_008082	NA	1.00E-119	1	adaptor-related protein complex 1, gamma 1 subunit (AP1G1), mRNA
64F7	186	334	XM_008449	NA	1.00E-47	1	small inducible cytokine A4 (homologous to mouse Mip-1b) (SCYA4)
585E1	904	1020	XM_009533	NA	1.00E-26	1	CGI-06 protein (LOC51604), mRNA Length = 2146
75B8	710	1406	XM_009574	NA	0	1	nucleolar protein (KKE/D repeat) (NOP56), mRNA Length = 1910
467A5	210	620	XM_009641	NA	0	1	v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC),
44A3	480	854	XM_009917	NA	0	1	splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA Length = 2614
114D12	2269	2491	XM_009929	NA	7.00E-56	1	LIM domain kinase 2 (LIMK2), mRNA Length = 3699
52F6	1	230	XM_010593	NA	2.00E-36	1	signaling lymphocytic activation molecule (SLAM), mRNA Length = 1791
185E5	1576	1695	XM_010897	NA	3.00E-32	1	neural precursor cell expressed, developmentally down-regulated 5 (NED
106C3	1359	1824	XM_011080	NA	0	1	T cell activation, increased late expression (TACTILE), mRNA
56H11	40	617	XM_011082	NA	0	1	interleukin 21 (IL21), mRNA Length = 617
53B2	2711	2839	XM_011714	NA	3.00E-29	1	neutral sphingomyelinase (N-SMase) activation associated factor (NSMAF
47A3	896	1231	XM_011865	NA	1.00E-55	1	isopentenyl-diphosphate delta isomerase (IDI1), mRNA Length = 1835
159E9	17	178	XM_011914	NA	1.00E-73	1	ribosomal protein S24 (RPS24), mRNA Length = 515
39E6	339	535	XM_012059	NA	1.00E-44	1	hypothetical protein MDS025 (MDS025), mRNA Length = 1225
142F6	623	745	XM_012328	NA	2.00E-40	1	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine ester
118D4	329	765	XM_012649	NA	1.00E-114	1	small inducible cytokine A7 (monocyte chemotactic protein 3) (SCYA7),
168H9	2502	2616	XM_015180	NA	2.00E-33	1	apolipoprotein L, 6 (APOL6), mRNA Length = 2915
58D2	1582	1742	XM_015921	NA	2.00E-30	1	putative chemokine receptor; GTP-binding protein (HM74), mRNA
466H9	86	440	XM_016138	NA	2.00E-45	1	hypothetical protein FLJ12439 (FLJ12439), mRNA Length = 1614

**Table 3A, Candidate nucleotide sequences identified using differential cDNA hybridization analysis**

184G1	2651	3584	XM_016481	NA	0	3	hypothetical protein (DJ328E19.C1.1), mRNA Length = 3603
107G9	8199	8786	XM_016721	NA	0	1	zinc finger protein 106 (ZFP106), mRNA Length = 10462
39F11	2719	3671	XM_016972	NA	0	2	similar to hypothetical protein (H. sapiens) (LOC82646), mRNA
159A7	19	561	XM_018498	NA	1.00E-167	3	ribosomal protein L5 (RPL5), mRNA Length = 984
459H2	2956	3450	Y16414	NA	0	1	mRNA for exportin (tRNA) Length = 3497

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

Example Clone	Genome Start	End	Accession	Probability	Number Clones	Genbank Description
172H5	12457	13616	AC000015	0	2	chromosome 4 clone B271E1 map 4q25, complete sequence L
464A9	21144	21280	AC000068	2.00E-70	1	Chromosome 22q11.2 Cosmid Clone 102g9 In DGCR Region, c
472B10	20340	20745	AC000087	2.00E-67	1	Chromosome 22q11.2 Cosmid Clone 83c5 In DGCR Region, co
103C4	93389	93611	AC000119	0	5	BAC clone RG104I04 from 7q21-7q22, complete sequence [H]
	119111	119521	AC000119			
	119522	119890	AC000119			
	119989	121059	AC000119			
514A3	201218	201293	AC000353	5.00E-34	2	Chromosome 11q13 BAC Clone 18h3, complete sequence Leng
524A9	24315	24820	AC002073	0	3	PAC clone RP3-515N1 from 22q11.2-q22, complete sequence
	24879	25274	AC002073			
458D10	28080	28625	AC002297	0	1	Genomic sequence from 9q34, complete sequence [Homo sap
476D3	106080	106289	AC002302	1.00E-86	1	Chromosome 16 BAC clone CIT987-SKA-345G4 ~complete geno
471D10	34638	34885	AC002306	1.00E-118	2	DNA from chromosome 19-cosmid R33799, genomic sequence,
596F6	75526	76327	AC002467	0	1	BAC clone CTA-364P16 from 7q31, complete sequence [Homo
473F3	74912	75540	AC002549	0	2	Xp22 BAC GS-377014 (Genome Systems BAC library) complet
111E12	24581	24992	AC003086	0	1	BAC clone CTB-104F4 from 7q21-q22, complete sequence Le
471E9	39706	40014	AC003103	1.00E-151	1	chromosome 17, clone HCIT268N12, complete sequence Leng
526B9	39477	39615	AC003695	3.00E-29	1	chromosome 17, clone hRPC.859_O_20, complete sequence L
331A3	47793	48492	AC003976	1.00E-164	5	chromosome 17, clone hCIT.91_J_4, complete sequence Len
105C1	115642	116079	AC004067	0	1	chromosome 4 clone B366O24 map 4q25, complete sequence
469H8	35828	35976	AC004080	5.00E-71	1	PAC clone RP1-170O19 from 7p15-p21, complete sequence L
55F9	114263	114415	AC004169	3.00E-46	1	chromosome 4 clone C0236G06 map 4p16, complete sequence
487F9	35319	35718	AC004187	0	1	clone UWGC:y17c131 from 6p21, complete sequence Length
459H7	13409	13739	AC004190	1.00E-166	1	from UWGC:y18c282 from 6p21, complete sequence Length =
464D1	28530	29042	AC004221	1.00E-106	1	DNA from chromosome 19, cosmid R29144 (LLNLR-252D12) an
468A7	53111	53416	AC004386	5.00E-80	2	Homo Sapiens Chromosome X clone bWXd691, complete seque
188F1	859	1200	AC004520	0	1	BAC clone CTB-119C2 from 7p15, complete sequence Length
523F5	38269	38756	AC004644	3.00E-38	1	chromosome 16, cosmid clone 367E12 (LANL), complete seq
142E4	113118	114014	AC004686	0	14	chromosome 17, clone hRPC.1073_F_15, complete sequence

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

	117050	117275	AC004686			
135F10	39469	39637	AC004762	3.00E-75	1	chromosome 20, P1 clone 28 (LBNL H134), complete sequen
472C8	120427	120603	AC004838	6.00E-92	1	PAC clone RP4-589D8 from 7q31.1-q31.3, complete sequenc
464F11	64853	65242	AC004849	5.00E-59	2	PAC clone RP4-659J6 from 7q33-q35, complete sequence Le
460D2	54796	55320	AC004854	0	1	PAC clone RP4-673M15 from 7p13-p11.2, complete sequence
513B4	94866	95147	AC004858	2.00E-57	1	PAC clone RP4-687K1 from 14, complete sequence Length =
463C7	53959	54083	AC004906	1.00E-44	1	PAC clone RP5-852O24 from 7p22, complete sequence Lengt
584D3	56155	56311	AC004913	5.00E-36	1	clone DJ0876A24, complete sequence Length = 98870
171B1	23796	24098	AC004918	1.00E-145	1	PAC clone RP5-894A10 from 7q32-q32, complete sequence L
463B10	33758	34061	AC004923	1.00E-135	1	PAC clone RP5-901A4, complete sequence Length = 94851
101A1	50075	50425	AC004997	1.00E-129	1	PAC clone RP1-130H16 from 22q12.1-qter, complete sequen
465G8	28181	28635	AC005014	0	1	BAC clone GS1-166A23 from 7p21, complete sequence Length
470C3	93162	93469	AC005068	1.00E-160	1	BAC clone CTB-137N13 from 7, complete sequence Length =
119E5	28806	29061	AC005156	1.00E-119	1	PAC clone RP5-1099C19 from 7q21-q22, complete sequence
98C3	24385	25049	AC005192	0	1	BAC clone CTB-163K11 from 7q31, complete sequence Length
140G6	37679	37878	AC005280	6.00E-85	1	PAC clone RP1-240K6 from 14, complete sequence Length =
476A10	12753	12826	AC005306	8.00E-33	1	chromosome 19, cosmid R27216 (LLNLR-232D4) and 3' overl
331A12	34177	34328	AC005391	2.00E-72	1	chromosome 19, cosmid R29942, complete sequence Length
111H11	85156	86081	AC005488	0	2	clone NH0313P13, complete sequence Length = 185737
472H11	22517	22813	AC005531	1.00E-150	1	PAC clone RP4-701O16 from 7q33-q36, complete sequence L
139G6	96577	97117	AC005540	0	3	clone RP11-533I8, complete sequence Length = 133761
	116180	116836	AC005540			
472F4	70951	71038	AC005593	3.00E-41	1	chromosome 5, P1 clone 1369f10 (LBNL H28), complete seq
469D4	27949	28457	AC005667	0	1	chromosome 17, clone hRPK.329_E_11, complete sequence L
463A7	127455	127799	AC005740	1.00E-154	1	chromosome 5p, BAC clone 50g21 (LBNL H154), complete se
126B8	27782	28073	AC005837	1.00E-160	2	chromosome 17, clone hRPK.318_A_15, complete sequence L
479D2	202167	202536	AC005859	2.00E-46	1	Xp22-83 BAC GSHB-324M7 (Genome Systems BAC Library) com
39G6	62582	63099	AC005920	0	1	chromosome 17, clone hRPK.700_H_6, complete sequence Le
63E1	39129	39250	AC006006	3.00E-59	1	PAC clone RP4-813F11 from 7q32-q34, complete sequence L

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

461B11	140287	140770	AC006010	1.00E-154	2	clone DJ0935K16
119G10	81312	81740	AC006033	0	1	BAC clone RP11-121A8 from 7p14-p13, complete sequence L
64A2	109063	109613	AC006050	0	2	chromosome 17, clone hRPK.268_F_2, complete sequence Le
459B7	13630	14294	AC006077	0	1	chromosome 5, P1 clone 254f11 (LBNL H62), complete sequ
37H4	58820	59068	AC006111	1.00E-67	1	chromosome 16 clone RP11-461A8, complete sequence Lengt
512E3	39935	40123	AC006139	3.00E-94	1	clone UWGC:y55c068 from 6p21, complete sequence Length
171H10	33704	33969	AC006165	8.00E-78	1	clone UWGC:y54c125 from 6p21, complete sequence Length
72A1	106659	106958	AC006207	1.00E-149	1	12p13.3 BAC RPCI3-488H23 (Roswell Park Cancer Institute
195H12	38763	38930	AC006323	2.00E-61	1	clone RP5-1151M5, complete sequence Length = 86267
113B6	36330	36635	AC006344	1.00E-157	1	PAC clone RP4-726N20 from 7q32-q34, complete sequence L
588G6	174012	174265	AC006449	2.00E-93	1	chromosome 17, clone hCIT.58_E_17, complete sequence Le
463B2	65534	66031	AC006483	0	1	BAC clone CTB-161C1 from 7, complete sequence Length =
115F11	71976	72094	AC006511	8.00E-60	1	12p13.1 (17.1-21.3 cM) BAC RPCI11-69M1 (Roswell Park Ca
187H11	34068	34544	AC006536	0	1	chromosome 14 clone BAC257P13 map 14q31, complete seque
477E6	106567	106656	AC007009	6.00E-30	1	BAC clone RP11-560C1 from 7p22-p21, complete sequence L
53E10	123408	123785	AC007040	0	1	BAC clone RP11-298H3 from 2, complete sequence Length =
462C8	164080	164223	AC007068	4.00E-72	2	12p BAC RPCI11-75L1 (Roswell Park Cancer Institute BAC
	174303	174379	AC007068			
478C7	27207	27305	AC007097	4.00E-43	1	BAC clone RP11-332E22 from 7q35-q36, complete sequence
181A8	4600	4798	AC007201	5.00E-59	2	chromosome 19, cosmid R34383, complete sequence Length
159F6	111852	112188	AC007263	1.00E-151	1	chromosome 14 clone RP11-79J20 containing gene for chec
163F10	94927	95303	AC007283	1.00E-126	2	BAC clone RP11-536I18 from 2, complete sequence Length
124G4	192082	192785	AC007318	0	3	clone RP11-420C9, complete sequence Length = 204230
331A5	117939	118047	AC007383	3.00E-51	1	BAC clone RP11-310K15 from 2, complete sequence Length
463C5	101528	101815	AC007444	9.00E-41	1	clone RP11-340F1 from 7p14-15, complete sequence Length
485D5	94681	95267	AC007458	1.00E-152	8	12q15 BAC RPCI11-444B24 (Roswell Park Cancer Institute
	95517	95826	AC007458			
	95858	96487	AC007458			
	96742	96838	AC007458			
	187608	187732	AC007458			
181B6	95554	96149	AC007488	0	2	3q27 BAC RPCI11-246B7 (Roswell Park Cancer Institute BA

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

102E12	12533	12977	AC007540	4.00E-93	1	12q24.1 BAC RPC111-128P10 (Roswell Park Cancer Institut
471C6	9877	10401	AC007561	1.00E-160	1	clone RP11-394E1, complete sequence Length = 106093
471C1	27629	27769	AC007676	1.00E-27	1	clone RP11-9B17, complete sequence Length = 152138
40D4	120766	121349	AC007882	0	1	BAC clone RP11-499D5 from 7p11.2-q11.2, complete sequen
166C10	90374	90790	AC007899	0	1	BAC clone RP11-531C11 from 2, complete sequence Length
492A7	11200	11376	AC007911	7.00E-57	1	chromosome 18, clone RP11-520K18, complete sequence Len
459B3	65768	66232	AC008009	0	2	3q26.2-27 BAC RPC111-436A20 (Roswell Park Cancer Instit
463F10	127622	127783	AC008083	3.00E-85	1	12 BAC RP11-493L12 (Roswell Park Cancer Institute BAC L
585C4	176255	176348	AC008124	6.00E-38	1	Chromosome 12q13-62.7-72 BAC RPC111-352M15 (Roswell Par
468E6	134033	134685	AC008279	0	2	BAC clone RP11-427F22 from 2, complete sequence Length
112E9	37565	37926	AC008408	0	4	chromosome 5 clone CTC-278H1, complete sequence Length
	37996	38360	AC008408			
145C5	131866	132484	AC008592	1.00E-141	8	chromosome 5 clone CTC-576H9, complete sequence Length
	134190	134862	AC008592			
458D8	82521	83080	AC008623	0	1	chromosome 19 clone CTB-14D10, complete sequence Length
584G2	44371	44929	AC008723	0	2	chromosome 5 clone CTB-95B16, complete sequence Length
144F7	73662	74295	AC008750	2.00E-54	2	chromosome 19 clone CTD-2616J11, complete sequence Leng
149G2	99171	99875	AC008760	1.00E-121	6	chromosome 19 clone CTD-3128G10, complete sequence Leng
194H6	52930	53250	AC008795	5.00E-89	2	chromosome 5 clone CTD-2052F19, complete sequence Lengt
	57088	57263	AC008795			
117H9	101321	102169	AC008860	0	11	chromosome 5 clone CTD-2185A1, complete sequence Length
	102715	102980	AC008860			
	103113	103402	AC008860			
155D6	34277	34517	AC008982	1.00E-103	1	chromosome 19 clone LLNLF-172E10, complete sequence Len
458E4	33802	34039	AC008985	8.00E-77	1	chromosome 19 clone LLNLF-198H7, complete sequence Leng
176A6	170428	170746	AC009073	1.00E-138	1	chromosome 16 clone RP11-31O11, complete sequence Lengt
146D8	11633	11699	AC009086	1.00E-28	1	chromosome 16 clone RP11-368N21, complete sequence Leng
458B8	176406	176888	AC009120	0	1	chromosome 16 clone RP11-484E3, complete sequence Lengt
73C4	136885	137479	AC009299	0	1	BAC clone RP11-26B22 from 2, complete sequence Length =
54F4	202039	202564	AC009312	0	1	clone RP11-425F6, complete sequence Length = 204834



**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

480E2	143559	143986	AC009313	0	1	BAC clone RP11-440P12 from 2, complete sequence Length
519E9	13492	13848	AC009404	1.00E-178	1	BAC clone RP11-28H22 from 2, complete sequence Length =
129D12	81260	81769	AC009466	1.00E-151	1	chromosome 11, clone RP11-87N22, complete sequence Leng
37E10	124522	125457	AC009477	0	3	BAC clone RP11-209H16 from 2, complete sequence Length
129A12	6750	7331	AC009506	0	1	clone RP11-542H1, complete sequence Length = 191764
515H10	5494	5990	AC009812	3.00E-69	4	chromosome 3, clone RP11-48B3, complete sequence Length
	74019	74540	AC009812			
165D1	53879	54343	AC009951	0	1	clone RP11-107E5, complete sequence Length = 159791
53D8	30308	30860	AC010132	1.00E-159	1	BAC clone RP11-111K18 from 7p11.2-p2, complete sequence
487F11	16839	17267	AC010480	1.00E-130	3	chromosome 5 clone CTD-2315M5, complete sequence Length
461G10	8988	9327	AC010677	1.00E-163	1	BAC clone CTD-2304L4 from 7, complete sequence Length =
115H2	19073	19679	AC010789	4.00E-97	2	chromosome 10, clone RP11-190J1, complete sequence Leng
	126247	126428	AC010789			
168A9	78976	79540	AC010877	0	2	BAC clone RP11-218F6 from Y, complete sequence Length =
468G6	98034	98744	AC010878	1.00E-107	3	clone RP11-230E20, complete sequence Length = 154115
477B12	167367	167895	AC010913	0	1	BAC clone RP11-44N22 from 2, complete sequence Length =
192E1	10683	11328	AC011245	0	1	clone RP11-498O5, complete sequence Length = 56793
467C2	4521	4890	AC011462	1.00E-178	1	chromosome 19 clone CTC-435M10, complete sequence Lengt
189F3	12090	12208	AC011495	8.00E-60	1	chromosome 19 clone CTB-33G10, complete sequence Length
144C9	38166	38421	AC011500	1.00E-62	1	chromosome 19 clone CTB-60E11, complete sequence Length
162E8	41387	41499	AC012005	8.00E-30	1	clone RP11-533E23, complete sequence Length = 189557
158G6	70285	70462	AC012170	3.00E-95	1	chromosome 15 clone RP11-562A8 map 15q21.1, complete se
189B11	19127	19241	AC013436	8.00E-29	3	BAC clone RP11-105B9 from 7, complete sequence Length =
	23196	23655	AC013436			
98C9	178883	179326	AC015651	1.00E-107	1	chromosome 17, clone RP11-55A13, complete sequence Leng
69F8	57839	58168	AC015819	0	1	chromosome 18, clone RP11-405M12, complete sequence Len
47F9	3198	3826	AC016395	0	1	chromosome 10 clone RP11-153K11, complete sequence Leng
480E3	39766	40155	AC016623	2.00E-35	1	chromosome 5 clone CTD-2345N17, complete sequence Lengt
196G12	59552	60523	AC016637	0	2	chromosome 5 clone RP11-34J15, complete sequence Length

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

518A8	61011	61433	AC016751	0	1	BAC clone RP11-504O20 from 2, complete sequence Length
36C11	54765	54868	AC017002	2.00E-30	2	clone RP11-68E19, complete sequence Length = 205662
489H9	108513	109049	AC017003	0	2	clone RP11-78C11, complete sequence Length = 118385
479H6	142657	142930	AC017020	8.00E-45	1	BAC clone RP11-185K15 from Y, complete sequence Length
483D10	99413	99875	AC017101	0	1	clone RP11-556A11, complete sequence Length = 195635
112B4	87464	88155	AC018511	1.00E-129	2	chromosome 10 clone RP11-77G23, complete sequence Length
	117653	117940	AC018511			
171F2	157933	158203	AC018673	2.00E-96	1	clone RP11-145A4, complete sequence Length = 187099
166H12	116351	116665	AC018682	1.00E-177	1	clone RP11-417F21, complete sequence Length = 181405
123F8	140561	141314	AC018904	0	3	chromosome 15 clone RP11-50C13 map 15q21.3, complete se
116C9	191414	191866	AC019206	0	1	BAC clone RP11-401N16 from 2, complete sequence Length
472E9	148765	149172	AC020550	1.00E-140	1	BAC clone RP11-198M19 from 2, complete sequence Length
129D1	66284	67154	AC020595	0	3	BAC clone RP11-358M9 from 2, complete sequence Length =
465H10	82476	83166	AC020629	0	2	12q BAC RP11-76E16 (Roswell Park Cancer Institute BAC L
182E2	83346	83465	AC020716	1.00E-33	2	clone RP11-449G13, complete sequence Length = 171805
	84373	84451	AC020716			
37G8	35257	35957	AC020750	0	1	chromosome 3 clone RP11-105H19 map 3p, complete sequenc
125F8	43854	44125	AC022007	1.00E-149	1	chromosome 3 clone RP11-481H17 map 3p, complete sequenc
523A8	2991	3475	AC022149	0	1	chromosome 19 clone CTD-3093B17, complete sequence Leng
459E7	90726	91104	AC022173	0	1	chromosome 7 clone RP11-29B3, complete sequence Length
469F8	53281	53724	AC022336	6.00E-92	1	3 BAC RP11-71H17 (Roswell Park Cancer Institute BAC Lib
463H5	75118	75256	AC022382	5.00E-72	1	chromosome 3 clone RP11-266J6 map 3p, complete sequence
466G7	20276	20522	AC023058	2.00E-53	2	3 BAC CTB-187G23 (CalTech BAC Library B) complete seque
	21327	21875	AC023058			
470B8	127894	128301	AC024568	1.00E-169	1	chromosome 5 clone CTD-2179L22, complete sequence Lengt
473E11	21558	21818	AC024939	1.00E-117	1	12 BAC RP11-485K18 (Roswell Park Cancer institute BAC L
470E1	150190	150573	AC025165	1.00E-171	1	12 BAC RP11-571M6 (Roswell Park Cancer Institute BAC Li
480B5	107499	107766	AC025253	9.00E-66	1	12 BAC RP11-499A10 (Roswell Park Cancer Institute BAC L
583B5	27783	27958	AC025257	1.00E-44	1	12 BAC RP11-56G10 (Roswell Park Cancer Institute BAC Li

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

37H8	86118	86418	AC026425	1.00E-148	1	chromosome 5 clone CTD-2183D23, complete sequence Length
166A9	119110	119797	AC026794	0	1	chromosome 5 clone CTD-2276B5, complete sequence Length
103D4	105697	105794	AC034240	5.00E-40	2	chromosome 5 clone CTD-2335C11, complete sequence Length
117H4	49581	49962	AC053513	0	1	clone RP11-359J14, complete sequence Length = 155958
459B8	64143	64709	AC066580	0	1	chromosome 3 clone RP11-109J15 map 3p, complete sequence
174D1	41807	42055	AC067945	2.00E-69	2	clone RP11-629B4, complete sequence Length = 162471
178F5	115078	115365	AC067945			
	105048	105223	AC068492	7.00E-37	1	BAC clone RP11-809C23 from 2, complete sequence Length
66E6	2116	2578	AC068499	1.00E-135	2	chromosome 19, cosmid R26574 (LLNL-R_225F10), complete
178C12	15618	15959	AC068789	0	1	12 BAC RP11-1049A21 (Roswell Park Cancer Institute BAC
145F12	110468	110647	AC069298	3.00E-89	4	chromosome 3 clone RP11-56K23, complete sequence Length
	110779	111202	AC069298			
	141211	141790	AC069298			
519F3	159763	160355	AC069304	0	1	BAC clone RP11-632K21 from 7, complete sequence Length
464B11	52608	53051	AC073347	0	1	BAC clone RP11-775L16 from 7, complete sequence Length
469E12	85540	85930	AC073917	0	2	12q BAC RP11-415D21 (Roswell Park Cancer Institute BAC
118C12	141407	141495	AC083868	6.00E-70	3	chromosome 7 clone RP11-148L5, complete sequence Length
	142293	142607	AC083868			
168G5	6632	7097	AC087065	0	2	chromosome 22q11 clone cos6, complete sequence Length =
479G12	127024	127342	AC090942	1.00E-119	1	chromosome 3 clone RP11-220D14 map 3p, complete sequence
122G1	41957	42383	AC091118	0	1	chromosome 16 clone CTC-510K1, complete sequence Length
479D7	153992	154141	AF001549	6.00E-29	1	Chromosome 16 BAC clone CIT987SK-A-270G1, complete sequ
461H7	21977	22331	AF015262	2.00E-69	1	chromosome 21 clone Pac 255P7 map 21q-AML, complete seq
463E9	27006	27615	AF015725	0	1	chromosome 21 clone cosmid clone D68F9 map 21q22.2, com
480D9	15848	16252	AF027207	1.00E-123	1	chromosome 21 clone cosmid D13C2 map 21q22.2, complete
465E9	296143	296800	AF131216	0	1	chromosome 8 map 8p23-p22 clones CTB-164D9, CTB-169o5,
469D2	23811	24045	AF161800	2.00E-78	1	chromosome 8q21.2 BAC 189m5, complete sequence Length =
37G7	200214	200755	AJ003147	0	2	complete genomic sequence between D16S3070 and D16S3275
	201078	201309	AJ003147			
459A1	36969	37402	AL008730	8.00E-82	2	DNA sequence from PAC 487J7 on chromosome 6q21-22.1. Co

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

480C8	37929	38457	AL008733	0	1	DNA sequence from clone RP1-163G9 on chromosome 1p36.2-
462D9	36712	37037	AL021878	0	2	DNA sequence from clone RP1-257I20 on chromosome 22q13.
	40603	40772	AL021878			
182H1	30506	30760	AL022238	3.00E-96	2	DNA sequence from clone RP5-1042K10 on chromosome 22q13
166F6	75035	75547	AL022240	0	1	DNA sequence from clone 328E19 on chromosome 1q12-21.2
165C12	179455	179766	AL022329	1.00E-175	1	DNA sequence from clone CTA-407F11 on chromosome 22q12
465A12	26329	26834	AL022331	0	1	DNA sequence from clone CTA-440B3 on chromosome 22q12.1
524D1	70719	70891	AL022394	2.00E-87	1	DNA sequence from clone RP3-511B24 on chromosome 20q11.
53E3	129077	129538	AL022396	0	1	DNA sequence from PAC 380E11 on chromosome 6p22.3-p24.
126D1	69809	70220	AL031178	0	1	DNA sequence from clone RP3-341E18 on chromosome 6p11.2
466A9	103757	104346	AL031277	0	1	DNA sequence from clone 1177E19 on chromosome 1p36.12-3
472E11	41594	41778	AL031595	9.00E-97	1	DNA sequence from clone RP4-671O14 on chromosome 22q13.
462E8	72042	72629	AL031672	0	1	DNA sequence from clone RP4-691N24 on chromosome 20p11.
478C2	29633	29708	AL031708	9.00E-28	1	DNA sequence from clone LA16-315G5 on chromosome 16, co
53B1	30963	31311	AL031729	1.00E-163	1	DNA sequence from clone RP1-159A19 on chromosome 1p36.1
178B2	38674	38800	AL033383	3.00E-27	1	DNA sequence from clone RP5-1013A10 on chromosome 6p24.
104A7	40604	41062	AL033397	0	1	DNA sequence from clone 27K12 on chromosome 6p11.2-12.3
190F11	77693	78285	AL033519	0	1	DNA sequence from clone RP3-340B19 on chromosome 6p21.2
121A11	15252	15679	AL034344	9.00E-52	1	DNA sequence from clone RP1-118B18 on chromosome 6p24.1
173B5	102500	102752	AL034384	7.00E-58	1	chromosome Xq28, cosmid clones 7H3, 14D7, C1230, 11E7,
121A12	34566	34684	AL034397	6.00E-47	1	DNA sequence from clone 159A1 on chromosome Xq12-13.3.
104B10	73639	74045	AL034418	1.00E-176	1	DNA sequence from clone RP5-1049G16 on chromosome 20q12
471F1	37083	37364	AL034553	1.00E-150	1	DNA sequence from clone RP5-914P20 on chromosome 20q13.
463H8	97563	97753	AL035405	1.00E-102	1	DNA sequence from clone 21O18 on chromosome 1p35.1-36.2
472E6	20949	21271	AL035413	1.00E-155	1	DNA sequence from clone RP4-657E11 on chromosome 1p35.1
121F1	65029	65503	AL035455	0	1	DNA sequence from clone RP5-1018E9 on chromosome 20q13.
465B1	37269	37445	AL035530	2.00E-47	1	DNA sequence from clone RP1-111C20 on chromosome 6q25.3
482C9	64837	65129	AL035662	1.00E-163	1	DNA sequence from clone RP4-599F21 on chromosome 20q12-

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

166B9	39808	39976	AL049715	1.00E-87	1	DNA sequence from clone RP4-646P11 on chromosome 1, com
591D6	65470	65892	AL049795	0	1	DNA sequence from clone RP4-622L5 on chromosome 1p34.2-
72G1	82160	82440	AL049829	1.00E-148	1	chromosome 14 DNA sequence *** IN PROGRESS *** BAC R-12
112H3	2111	2535	AL050330	0	2	DNA sequence from clone RP1-3E1 on chromosome 6p21.23-2
479G5	18853	19244	AL096712	1.00E-125	1	DNA sequence from clone RP4-744I24 on chromosome 6p12.1
464C10	80145	80583	AL096773	4.00E-85	1	DNA sequence from clone 1000E10 on chromosome 1p12-13.3
123D11	34999	35510	AL096808	1.00E-166	1	genomic region containing hypervariable minisatellites
129F10	1148	2507	AL109616	0	95	chromosome 21 Cosmid LLNLc116L1110, complete sequence L
469B8	13155	13527	AL109755	0	1	DNA sequence from clone RP3-340H11 on chromosome 6q24.1
105F4	57995	58306	AL109758	5.00E-98	1	chromosome 14 DNA sequence *** IN PROGRESS *** BAC R-87
465H5	136248	136356	AL109847	7.00E-29	1	chromosome 14 DNA sequence BAC R-603H7 of library RPCI-
60G8	84706	84959	AL109914	1.00E-135	1	DNA sequence from clone RP11-27F12 on chromosome 6p22.3
102A8	169378	169473	AL109918	2.00E-34	1	DNA sequence from clone RP1-152L7 on chromosome 6p11.2-
471D6	63862	64021	AL117186	4.00E-80	1	chromosome 14 DNA sequence *** IN PROGRESS *** BAC R-29
176E10	145991	146554	AL117258	3.00E-63	1	chromosome 14 DNA sequence BAC R-244E17 of library RPCI
480E7	2975	3356	AL117352	1.00E-153	1	DNA sequence from clone RP5-876B10 on chromosome 1q42.1
110D3	48631	48886	AL121573	3.00E-65	2	DNA sequence from clone RP1-306F2 on chromosome 6p12.1-
40B2	106788	107123	AL121657	2.00E-42	1	BAC sequence from the SPG4 candidate region at 2p21-2p2
52B9	56473	56690	AL121899	1.00E-104	2	DNA sequence from clone RP11-128M1 on chromosome 20. Co
485A6	5475	7084	AL121985	1.00E-138	7	DNA sequence from clone RP11-404F10 on chromosome 1q23.
	15867	16574	AL121985			
	17098	17504	AL121985			
	24037	24292	AL121985			
40E4	54176	54528	AL121998	1.00E-179	1	DNA sequence from clone RP5-1103B4 on chromosome 1 Cont
118H12	21398	21744	AL132838	0	1	chromosome 14 DNA sequence BAC R-85G20 of library RPCI-
599F11	153822	154345	AL133153	0	1	chromosome 14 DNA sequence BAC R-895M11 of library RPCI
478G8	115784	116115	AL133243	1.00E-120	1	BAC sequence from the SPG4 candidate region at 2p21-2p2
107H8	119760	120729	AL133330	0	22	DNA sequence from clone RP1-68D18 on chromosome 11p12-1
	121182	121863	AL133330			
	122773	122940	AL133330			
	143751	144379	AL133330			

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

	146057	147016	AL133330			
	159262	159639	AL133330			
471E7	127891	128013	AL133340	6.00E-46	1	DNA sequence from clone RP11-204H22 on chromosome 20. C
118H5	3922	4021	AL133392	1.00E-38	2	DNA sequence from clone CITF22-45C1 on chromosome 22 Co
	4557	5184	AL133392			
40A3	96202	96785	AL133412	0	3	DNA sequence from clone RP11-131A5 on chromosome 9q22.1
	97177	97568	AL133412			
482A5	28668	29037	AL133415	3.00E-34	4	DNA sequence from clone RP11-124N14 on chromosome 10. C
	51083	51210				
54G9	54866	55153	AL135783	1.00E-154	1	DNA sequence from clone RP3-527F8 on chromosome Xq25-27
515C12	72222	72601	AL135818	1.00E-146	2	chromosome 14 DNA sequence BAC C-2547L24 of library Cal
109A9	53171	53447	AL136320	1.00E-137	1	DNA sequence from clone RP3-323N1 on chromosome 10. Con
476H10	127150	127680	AL137017	0	1	DNA sequence from clone RP11-120J1 on chromosome 9 Cont
192C3	122511	122837	AL137100	1.00E-117	1	chromosome 14 DNA sequence BAC R-108M12 of library RPCI
55G3	38923	39058	AL137142	7.00E-44	2	DNA sequence from clone RP11-173P16 on chromosome 13q12
	42456	42686	AL137142			
466G2	24290	24402	AL137144	9.00E-42	1	DNA sequence from clone RP11-210E23 on chromosome 13q31
140F9	27354	27715	AL137798	8.00E-82	1	DNA sequence from clone RP5-1182A14 on chromosome 1 Con
37A2	134590	134750	AL137800	3.00E-69	1	DNA sequence from clone RP1-127C7 on chromosome 1q25.1-
493C2	734	1052	AL138714	1.00E-157	1	DNA sequence from clone RP11-121J7 on chromosome 13q32.
468B9	1911	2509	AL138717	9.00E-70	1	DNA sequence from clone RP11-11D8 on chromosome 6 Conta
194F9	46595	46814	AL138755	6.00E-94	1	DNA sequence from clone RP11-48M17 on chromosome 9p24.1
483D12	80220	80755	AL138776	1.00E-157	1	DNA sequence from clone RP11-20H6 on chromosome 1q25.1-
464G9	14032	14659	AL139020	0	1	chromosome 14 DNA sequence BAC R-164H13 of library RPCI
59G1	34476	34936	AL139274	0	1	DNA sequence from clone RP11-393I2 on chromosome 6, com
129D3	65447	65661	AL139289	1.00E-107	2	DNA sequence from clone RP1-92O14 on chromosome 1p33-34
	66950	67158	AL139289			
464C2	55616	56289	AL139328	0	1	DNA sequence from clone RP11-84N7 on chromosome 13. Con
57H10	155342	155810	AL139330	0	2	DNA sequence from clone RP11-266C7 on chromosome 6q25.2
470G6	44695	44978	AL139399	1.00E-130	1	DNA sequence from clone RP11-574A21 on chromosome Xq21.
476F5	42969	43159	AL139801	5.00E-98	1	DNA sequence from clone RP11-247M1 on chromosome 13, co

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

107G11	139776	140378	AL157402	0	2	DNA sequence from clone RP11-553K8 on chromosome 1q31.2
172B12	136072	136492	AL157768	1.00E-155	1	DNA sequence from clone RP11-481A22 on chromosome 13 Co
149A11	438	663	AL157776	1.00E-123	1	DNA sequence from clone RP11-68J15 on chromosome 6, com
165E7	66361	67034	AL157789	0	1	chromosome 14 DNA sequence BAC R-880Q3 of library RPCI-
192B3	51907	52253	AL157938	1.00E-176	1	DNA sequence from clone RP11-544A12 on chromosome 9q34.
50A11	5753	5886	AL158136	1.00E-59	1	DNA sequence from clone RP1-44N23 on chromosome 6 Conta
472F9	84638	85232	AL158159	0	1	DNA sequence from clone RP11-498N2 on chromosome 9, com
462G12	132520	132708	AL160155	2.00E-95	1	DNA sequence from clone RP11-461N23 on chromosome 13, c
117H6	1976	2518	AL160233	0	1	chromosome 14 DNA sequence BAC C-2373J19 of library Cal
460B9	207	739	AL160408	1.00E-104	2	DNA sequence from clone RP4-781K5 on chromosome 1q42.1-
	2023	2537	AL160408			
467F10	8461	8829	AL161627	1.00E-122	1	DNA sequence from clone RP11-287A8 on chromosome 9, com
469A10	81966	82313	AL161781	1.00E-175	1	DNA sequence from clone RP11-297B17 on chromosome 9, co
598H2	222231	222679	AL162151	0	1	chromosome 14 DNA sequence *** IN PROGRESS *** BAC C-31
466C5	147064	147687	AL162578	0	1	DNA sequence from clone RP11-2J18 on chromosome 6, comp
467C9	216403	216544	AL163303	3.00E-38	1	chromosome 21 segment HS21C103 Length = 340000
462H9	63385	63502	AL163853	6.00E-59	1	chromosome 14 DNA sequence BAC R-248B10 of library RPCI
464A10	63421	63807	AL353744	2.00E-55	1	clone RP13-100-A9 on chromosome X
99E10	6789	7153	AL353804	0	1	DNA sequence from clone RP13-216E22 on chromosome Xq13.
477D10	49708	50171	AL354716	4.00E-96	1	DNA sequence from clone RP11-86F4 on chromosome 6, comp
518F10	3379	3602	AL354891	2.00E-94	1	DNA sequence from clone RP11-44I7 on chromosome 13, com
464D8	122494	122702	AL354977	1.00E-87	2	DNA sequence from clone RP11-509J21 on chromosome 9, co
459H6	109525	109864	AL355520	1.00E-179	1	DNA sequence from clone RP4-595C2 on chromosome 1q24.1-
196C8	21603	21783	AL355615	7.00E-96	2	DNA sequence from clone RP11-33E24 on chromosome 6, com
110B8	11907	12312	AL355797	1.00E-145	1	DNA sequence from clone RP1-9E2 on chromosome 6, comple
180B2	142517	142726	AL355871	1.00E-72	1	DNA sequence from clone RP11-47K11 on chromosome 1, com
464H5	50106	50463	AL356276	0	2	DNA sequence from clone RP11-367J7 on chromosome 1. Con
105H4	32156	32236	AL356379	2.00E-27	2	DNA sequence from clone RP1-63P18 on chromosome 1. Cont
	32440	32804	AL356379			

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

113H1	22550	22837	AL356481	1.00E-160	1	DNA sequence from clone RP11-216B9 on chromosome 9, com
170F7	46442	46855	AL357374	0	1	DNA sequence from clone RP11-353C18 on chromosome 20 Co
522D3	113148	113424	AL360182	1.00E-127	1	DNA sequence from clone RP11-549L6 on chromosome 10, co
36E9	38157	38346	AL390196	4.00E-47	9	clone RP11-60E24 on chromosome 6
587E3	15704	16062	AL442128	1.00E-173	2	DNA sequence from clone RP11-365P13 on chromosome 13, c
468E8	52779	53344	AL445201	1.00E-123	1	DNA sequence from clone RP11-358L16 on chromosome 10, c
39G11	106047	106169	AL445687	2.00E-26	1	clone RP11-567B20 on chromosome 1
101F1	1538	1656	AL449244	5.00E-44	2	Novel human gene mapping to chromosome 22 Length = 2315
	1676	2096	AL449244			
466D1	56761	56929	AL450344	5.00E-85	1	DNA sequence from clone RP11-136K14 on chromosome 6 Con
142E9	116227	116568	AL590763	0	8	chromosome X sequence from 6 PACs 1 BAC and 1 cosmid, r
	116669	117358	AL590763			
	154792	155165	AL590763			
459E9	26826	26890	AP000471	2.00E-27	1	genomic DNA, chromosome 21q22.3, clone:B2308H15 Length
472C1	95646	96035	AP000501	1.00E-101	1	genomic DNA, chromosome 8p11.2, clone:91h23 to 9-41 Len
464A7	7930	8285	AP000526	1.00E-178	1	genomic DNA, chromosome 22q11.2, Cat Eye Syndrome regio
165E11	643	1244	AP000554	1.00E-147	2	genomic DNA, chromosome 22q11.2, BCRL2 region, clone:KB
72D8	27091	27486	AP000555	0	1	genomic DNA, chromosome 22q11.2, BCRL2 region, clone:KB
470B4	15634	15703	AP001429	5.00E-28	1	genomic DNA, chromosome 21q22.2, clone:T1212, LB7T-ERG
59E12	59103	59520	AP001574	1.00E-144	2	genomic DNA, chromosome 8q23, clone:KB1991G8 Length =
	60671	61189	AP001574			
138G5	313261	313931	AP001693	1.00E-31	27	genomic DNA, chromosome 21q, section 37/105 Length = 34
	315877	315967	AP001693			
	319062	319564	AP001693			
	319957	320293	AP001693			
	320563	321212	AP001693			
	328757	329184	AP001693			
158G11	107888	108375	AP001721	0	1	genomic DNA, chromosome 21q, section 65/105 Length = 34
462F9	330129	330645	AP001728	1.00E-133	1	genomic DNA, chromosome 21q, section 72/105 Length = 34
479A12	74529	74902	AP002907	1.00E-141	1	genomic DNA, chromosome 8q23, clone:KB431C1 Length = 9
470B2	123506	123689	AP003117	4.00E-72	2	genomic DNA, chromosome 8q23, clone:KB1958F4 Length =
46D1	79174	79657	AP003471	1.00E-164	2	genomic DNA, chromosome 8q23, clone:KB1552D7 Length =
	83490	84099	AP003471			
496C4	745790	746197	NT_0044060		1	chromosome 1 working draft sequence segment



**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

468E10	2015	2118	NT_004452	2.00E-32	2	chromosome 1 working draft sequence segment
479H12	394087	394676	NT_004480	0	1	chromosome 1 working draft sequence segment
472G2	268543	268642	NT_004525	3.00E-42	1	chromosome 1 working draft sequence segment
477D9	231154	231469	NT_004531	1.00E-177	1	chromosome 1 working draft sequence segment
460F7	786014	786511	NT_004623	0	1	chromosome 1 working draft sequence segment
171F11	1E+06	1036701	NT_004658	1.00E-26	1	chromosome 1 working draft sequence segment
184H1	2E+06	1770512	NT_004698	0	4	chromosome 1 working draft sequence segment
	2E+06	1822054	NT_004698			
	2E+06	1832854	NT_004698			
514H9	289858	289941	NT_004705	1.00E-29	1	chromosome 1 working draft sequence segment
463G1	175158	175615	NT_004725	0	1	chromosome 1 working draft sequence segment
466C9	543567	544240	NT_004753	0	1	chromosome 1 working draft sequence segment
496D7	2E+06	1515549	NT_004754	0	1	chromosome 1 working draft sequence segment
583G8	733247	733667	NT_004771	1.00E-128	1	chromosome 1 working draft sequence segment
124D2	107397	107739	NT_004916	1.00E-178	1	chromosome 1 working draft sequence segment
479A8	285973	286345	NT_005130	1.00E-165	1	chromosome 2 working draft sequence segment
165F7	1E+06	1435537	NT_005151	1.00E-125	1	chromosome 2 working draft sequence segment
465F7	773772	774502	NT_005166	0	2	chromosome 2 working draft sequence segment
73A3	80919	81448	NT_005182	0	2	chromosome 2 working draft sequence segment
	81502	81742	NT_005182			
124G7	2E+06	1859389	NT_005204	1.00E-180	1	chromosome 2 working draft sequence segment
479G6	552674	553005	NT_005229	1.00E-141	5	chromosome 2 working draft sequence segment
	1E+06	1122605	NT_005229			
194C2	481052	481444	NT_005230	1.00E-101	1	chromosome 2 working draft sequence segment
159F11	795978	796616	NT_005275	0	1	chromosome 2 working draft sequence segment
472B1	1013	1410	NT_005311	0	1	chromosome 2 working draft sequence segment
470G7	375182	375594	NT_005399	0	1	chromosome 2 working draft sequence segment
100C3	803712	804094	NT_005420	0	2	chromosome 2 working draft sequence segment
	970577	971108	NT_005420			
98H4	2E+06	1829143	NT_005423	0	1	chromosome 2 working draft sequence segment

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

105A10	1E+06	1144092	NT_005435	1.00E-167	2	chromosome 2 working draft sequence segment
465C3	13444	13890	NT_005471	0	1	chromosome 2 working draft sequence segment
112E5	3169	3793	NT_005485	0	1	chromosome 2 working draft sequence segment
111H6	146878	146999	NT_005499	2.00E-55	1	chromosome 3 working draft sequence segment
467G7	198880	199329	NT_005505	0	1	chromosome 3 working draft sequence segment
182F12	140059	140193	NT_005516	1.00E-144	3	chromosome 3 working draft sequence segment
	140754	141039	NT_005516			
112B5	137689	138300	NT_005529	0	4	chromosome 3 working draft sequence segment
64B3	55213	55793	NT_005535	0	1	chromosome 3 working draft sequence segment
465E12	866776	867258	NT_005769	0	2	chromosome 3 working draft sequence segment
	1E+06	1021292	NT_005769			
470D5	1E+06	1395364	NT_005795	1.00E-147	3	chromosome 3 working draft sequence segment
	2E+06	1749621	NT_005795			
479G2	294179	294607	NT_005910	0	1	chromosome 3 working draft sequence segment
112E1	392884	393490	NT_005973	0	1	chromosome 3 working draft sequence segment
466H5	339511	340153	NT_005985	0	2	chromosome 3 working draft sequence segment
189A8	22414	22869	NT_005991	1.00E-110	1	chromosome 3 working draft sequence segment
45H8	1E+06	1012040	NT_006098	1.00E-113	1	chromosome 4 working draft sequence segment
104D1	282259	282753	NT_006102	0	2	chromosome 4 working draft sequence segment
459G8	367701	368248	NT_006111	0	1	chromosome 4 working draft sequence segment
480E11	486179	486804	NT_006114	0	1	chromosome 4 working draft sequence segment
115G2	4E+06	3514655	NT_006204	1.00E-177	1	chromosome 4 working draft sequence segment
479G3	71744	72258	NT_006258	0	1	chromosome 4 working draft sequence segment
461H11	378023	378482	NT_006397	0	1	chromosome 4 working draft sequence segment
462F11	80360	81081	NT_006410	0	1	chromosome 4 working draft sequence segment
463A5	2E+06	1609976	NT_006489	1.00E-138	1	chromosome 5 working draft sequence segment
464C5	190095	190533	NT_006611	0	2	chromosome 5 working draft sequence segment
109H9	89260	89769	NT_006946	0	3	chromosome 5 working draft sequence segment
137B5	2E+06	1613357	NT_006951	1.00E-86	4	chromosome 5 working draft sequence segment

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

73H4	992358 992685	NT_007288 0	1	chromosome 6 working draft sequence segment
174H6	431672 432054	NT_007308 0	1	chromosome 6 working draft sequence segment
124C8	282413 283138	NT_007951 0	1	chromosome 7 working draft sequence segment
174G11	829762 830370	NT_007972 0	1	chromosome 8 working draft sequence segment
471H11	613132 613314	NT_007978 9.00E-96	1	chromosome 8 working draft sequence segment
471G8	189279 189630	NT_008012 1.00E-147	1	chromosome 8 working draft sequence segment
67C5	287017 287563	NT_008037 0	2	chromosome 8 working draft sequence segment
479H4	90555 90944	NT_008047 1.00E-174	1	chromosome 8 working draft sequence segment
100D7	64180 64371	NT_008050 1.00E-134	6	chromosome 8 working draft sequence segment
	331150 331412	NT_008050		
45B9	479878 480193	NT_008060 1.00E-165	12	chromosome 8 working draft sequence segment
	489788 490607	NT_008060		
169F11	291836 292284	NT_008081 0	1	chromosome 8 working draft sequence segment
468H11	106661 106897	NT_008128 1.00E-121	2	chromosome 8 working draft sequence segment
	110374 110691	NT_008128		
470H6	520107 520754	NT_008139 0	1	chromosome 8 working draft sequence segment
471F9	392744 393279	NT_008157 0	1	chromosome 8 working draft sequence segment
469G8	433686 434156	NT_008338 0	1	chromosome 9 working draft sequence segment
193E6	1E+06 1228306	NT_008445 6.00E-56	1	chromosome 9 working draft sequence segment
480D2	90407 90990	NT_008484 0	1	chromosome 9 working draft sequence segment
58G4	1E+06 1055972	NT_008513 1.00E-139	1	chromosome 9 working draft sequence segment
490F10	669853 669980	NT_008653 5.00E-39	2	chromosome 10 working draft sequence segment
	743459 744217	NT_008653		
463B3	1E+06 1369815	NT_008682 0	1	chromosome 10 working draft sequence segment
116E10	1E+06 1462064	NT_008769 0	5	chromosome 10 working draft sequence segment
	2E+06 2026887	NT_008769		
	2E+06 2027460	NT_008769		
	2E+06 2028265	NT_008769		
190A9	806672 807345	NT_008774 0	4	chromosome 10 working draft sequence segment
473B7	75339 75524	NT_008783 4.00E-72	2	chromosome 10 working draft sequence segment
	75869 76181	NT_008783		
490A11	484304 484753	NT_008921 0	1	chromosome 10 working draft sequence segment

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

585E10	328767	329151	NT_0089780	1	chromosome 11 working draft sequence segment	
458B9	955258	955846	NT_0090730	1	chromosome 11 working draft sequence segment	
471F4	288811	289312	NT_0091070	1	chromosome 11 working draft sequence segment	
478H7	1E+06	1255050	NT_009184	1.00E-92	1	chromosome 11 working draft sequence segment
109F10	1E+06	1136705	NT_009314	1.00E-171	1	chromosome 11 working draft sequence segment
117F1	401530	402043	NT_0093340	2	chromosome 11 working draft sequence segment	
	2E+06	1600694	NT_009334			
467B6	3E+06	3011938	NT_009338	5.00E-93	2	chromosome 11 working draft sequence segment
158H6	351515	351940	NT_0094380	2	chromosome 12 working draft sequence segment	
471C2	977560	977791	NT_009452	1.00E-127	1	chromosome 12 working draft sequence segment
182G2	21455	21913	NT_0094580	3	chromosome 12 working draft sequence segment	
	167133	167630	NT_009458			
462B12	518389	518876	NT_0094640	1	chromosome 12 working draft sequence segment	
458A3	2E+06	1890445	NT_0094710	1	chromosome 12 working draft sequence segment	
470D7	9540	10050	NT_0095400	1	chromosome 12 working draft sequence segment	
525F3	163261	163590	NT_009616	1.00E-125	1	chromosome 12 working draft sequence segment
186E8	2E+06	1502030	NT_0097140	1	chromosome 12 working draft sequence segment	
465G2	2E+06	1787964	NT_009759	1.00E-130	2	chromosome 12 working draft sequence segment
476C1	321714	322118	NT_009763	1.00E-170	1	chromosome 12 working draft sequence segment
476G8	2E+06	1609230	NT_009770	6.00E-26	1	chromosome 12 working draft sequence segment
588E4	1E+06	1136791	NT_010036	1.00E-134	1	chromosome 14 working draft sequence segment
479H5	2E+06	2151529	NT_0100620	1	chromosome 14 working draft sequence segment	
178C10	6E+06	6026576	NT_0101130	1	chromosome 14 working draft sequence segment	
192C9	5E+06	5344032	NT_0101940	1	chromosome 15 working draft sequence segment	
119F12	3E+06	2680702	NT_010204	1.00E-128	1	chromosome 15 working draft sequence segment
67G10	112609	112890	NT_010222	1.00E-132	2	chromosome 15 working draft sequence segment
98C1	6684	7232	NT_0102370	1	chromosome 15 working draft sequence segment	
458G10	478693	479052	NT_010253	1.00E-120	1	chromosome 15 working draft sequence segment
459D1	2E+06	2123962	NT_0102890	1	chromosome 15 working draft sequence segment	

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

110G1	303146	303706	NT_0103080	1	chromosome 15 working draft sequence segment
73A4	758542	758734	NT_0103106.00E-42	1	chromosome 15 working draft sequence segment
470F5	495497	496038	NT_0103600	1	chromosome 15 working draft sequence segment
469B6	1E+06	1095404	NT_0104191.00E-123	1	chromosome 16 working draft sequence segment
479E10	468259	468674	NT_0104320	1	chromosome 16 working draft sequence segment
100F5	177425	177795	NT_0105051.00E-169	1	chromosome 16 working draft sequence segment
462C5	22345	22727	NT_0105230	1	chromosome 16 working draft sequence segment
71H3	125549	125838	NT_0105305.00E-77	1	chromosome 16 working draft sequence segment
161E8	1E+06	1067677	NT_0106411.00E-123	1	chromosome 17 working draft sequence segment
464D9	120516	121079	NT_0106570	1	chromosome 17 working draft sequence segment
114G3	385825	386329	NT_0106721.00E-152	3	chromosome 17 working draft sequence segment
	387069	387398	NT_010672		
	424808	425286	NT_010672		
459E6	262663	263161	NT_0107570	1	chromosome 17 working draft sequence segment
134H3	583781	583868	NT_0107997.00E-32	1	chromosome 17 working draft sequence segment
467E5	1E+06	1376833	NT_0108080	1	chromosome 17 working draft sequence segment
462A11	436300	437040	NT_0108160	2	chromosome 17 working draft sequence segment
460C2	168998	169554	NT_0108330	1	chromosome 17 working draft sequence segment
467A8	480458	480865	NT_0109860	1	chromosome 18 working draft sequence segment
480F8	137902	138430	NT_0110290	1	chromosome 18 working draft sequence segment
470F8	472324	472740	NT_0111410	1	chromosome 19 working draft sequence segment
100E3	445588	445677	NT_0111452.00E-37	2	chromosome 19 working draft sequence segment
	445757	446041	NT_011145		
104A12	169627	169811	NT_0112402.00E-99	1	chromosome 19 working draft sequence segment
69B10	358921	359000	NT_0112456.00E-37	1	chromosome 19 working draft sequence segment
465C7	243467	243788	NT_0112690	1	chromosome 19 working draft sequence segment
464E7	1E+06	1182829	NT_0115971.00E-107	1	chromosome X working draft sequence segment
61A11	67055	67582	NT_0117240	1	chromosome X working draft sequence segment
140G10	761394	761693	NT_0158051.00E-138	3	chromosome 2 working draft sequence segment
	761753	762151	NT_015805		

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

486C4	503899 504524	NT_016354 0	2	chromosome 4 working draft sequence segment
480G4	260275 260648	NT_016355 0	1	chromosome 4 working draft sequence segment
461G8	276786 277233	NT_016593 0	1	chromosome 4 working draft sequence segment
118D9	413201 413343	NT_016968 7.00E-46	1	chromosome 6 working draft sequence segment
68C9	2E+06 2193260	NT_017568 1.00E-169	1	chromosome 9 working draft sequence segment
470E5	526603 527148	NT_017582 1.00E-131	2	chromosome 9 working draft sequence segment
127H8	248872 249411	NT_019390 0	1	chromosome 5 working draft sequence segment
47G6	204946 205445	NT_019447 0	1	chromosome 7 working draft sequence segment
467E8	210239 210638	NT_021889 1.00E-170	1	chromosome 1 working draft sequence segment
480C6	210001 210545	NT_021897 0	1	chromosome 1 working draft sequence segment
69H11	94439 94993	NT_021903 1.00E-104	1	chromosome 1 working draft sequence segment
107D7	466791 467280	NT_021918 0	1	chromosome 1 working draft sequence segment
471E11	418049 418124	NT_021967 8.00E-32	1	chromosome 1 working draft sequence segment
468F11	370984 371480	NT_022103 0	1	chromosome 1 working draft sequence segment
464H12	1E+06 1024449	NT_022171 1.00E-155	1	chromosome 2 working draft sequence segment
462B11	242113 242753	NT_022174 0	1	chromosome 2 working draft sequence segment
196D7	65778 66218	NT_022315 0	5	chromosome 2 working draft sequence segment
	66514 66886	NT_022315		
100E10	148157 148338	NT_022358 4.00E-95	1	chromosome 2 working draft sequence segment
142F9	193054 193433	NT_022457 0	6	chromosome 3 working draft sequence segment
	240726 241196	NT_022457		
	286545 287198	NT_022457		
595A12	40034 40650	NT_022488 0	2	chromosome 3 working draft sequence segment
75A2	24792 25256	NT_022555 1.00E-133	1	chromosome 3 working draft sequence segment
468G12	276616 277068	NT_022751 0	1	chromosome 4 working draft sequence segment
471F6	403620 404200	NT_022765 6.00E-89	1	chromosome 4 working draft sequence segment
463H12	197991 198185	NT_022795 2.00E-88	1	chromosome 4 working draft sequence segment
473E4	408745 409322	NT_022840 1.00E-123	2	chromosome 4 working draft sequence segment
461C8	544633 545127	NT_022844 0	1	chromosome 4 working draft sequence segment

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

470G10	148269	148781	NT_022855	0	1	chromosome 4 working draft sequence segment
480F3	471820	472173	NT_023178	1.00E-138	1	chromosome 5 working draft sequence segment
176G2	98388	98683	NT_023529	1.00E-153	1	chromosome 7 working draft sequence segment
71F2	62180	62604	NT_023654	0	1	chromosome 8 working draft sequence segment
459F2	324390	324869	NT_023660	0	1	chromosome 8 working draft sequence segment
124F9	275971	276413	NT_023666	0	1	chromosome 8 working draft sequence segment
111H9	388593	389283	NT_023676	0	1	chromosome 8 working draft sequence segment
460D12	527418	527528	NT_023703	3.00E-43	1	chromosome 8 working draft sequence segment
129D7	104058	104672	NT_023833	1.00E-170	1	chromosome 8 working draft sequence segment
183G2	183398	183840	NT_023923	1.00E-112	1	chromosome 9 working draft sequence segment
478G6	41677	41996	NT_023945	1.00E-137	1	chromosome 9 working draft sequence segment
163E7	1E+06	1455953	NT_023959	1.00E-126	1	chromosome 9 working draft sequence segment
472G12	21182	21574	NT_024016	0	1	chromosome 9 working draft sequence segment
466B7	471195	471690	NT_024040	1.00E-138	1	chromosome 10 working draft sequence segment
459D2	315088	315482	NT_024091	0	1	chromosome 10 working draft sequence segment
468B10	791272	792086	NT_024101	0	2	chromosome 10 working draft sequence segment
175D1	270651	271264	NT_024115	0	2	chromosome 10 working draft sequence segment
472D7	16139	16549	NT_024223	0	1	chromosome 11 working draft sequence segment
476G3	71426	71803	NT_024498	1.00E-144	1	chromosome 13 working draft sequence segment
138B6	2E+06	1638986	NT_024680	0	2	chromosome 15 working draft sequence segment
466A4	308514	309137	NT_024767	0	1	chromosome 16 working draft sequence segment
583D6	551386	551654	NT_024781	1.00E-133	1	chromosome 16 working draft sequence segment
468F10	91355	92043	NT_024815	1.00E-132	2	chromosome 16 working draft sequence segment
461D9	406470	406916	NT_024897	0	2	chromosome 17 working draft sequence segment
	440400	440720	NT_024897			
520A8	168514	168868	NT_024997	0	1	chromosome 18 working draft sequence segment
128F5	113027	113221	NT_025378	6.00E-82	1	chromosome X working draft sequence segment
467B11	519341	519633	NT_025635	1.00E-113	1	chromosome 1 working draft sequence segment

**Table 3B: Identified Genomic Regions that code for novel human mRNA's**

464E11	8932	9161	NT_025657	1.00E-126	1	chromosome 2 working draft sequence segment
188C1	1E+06	1221531	NT_025823	4.00E-72	1	chromosome 10 working draft sequence segment
468B2	156035	156630	NT_025900	1.00E-150	2	chromosome 16 working draft sequence segment
470F3	427484	428029	NT_026379	0	2	chromosome 10 working draft sequence segment
36G1	483362	484059	NT_026443	0	1	chromosome 15 working draft sequence segment
466B5	19929	20420	NT_026455	1.00E-123	1	chromosome 16 working draft sequence segment
105A8	3431	3518	U12202	6.00E-34	1	ribosomal protein S24 (rps24) gene, complete cds Length
175D10	18139	18285	U18671	8.00E-45	2	Stat2 gene, complete cds Length = 18648
116F9	68889	69093	U85199	6.00E-69	1	BAC956, complete sequence Length = 105232
598F3	22246	22656	U91318	0	1	chromosome 16 BAC clone CIT987SK-A-962B4, complete sequ
471G1	1	109	Z56926	9.00E-54	1	CpG island DNA genomic Mse1 fragment, clone 153c6, forw
516D5	1	143	Z62429	4.00E-53	1	CpG island DNA genomic Mse1 fragment, clone 69a1, forwa
107D11	81	292	Z63603	1.00E-104	1	CpG island DNA genomic Mse1 fragment, clone 87h3, forwa
481D4	12379	12686	Z69304	1.00E-101	1	DNA sequence from cosmid V311G7, between markers DXS366
461G6	23967	24497	Z69715	1.00E-173	2	DNA sequence from clone LL22NC03-74G7 on chromosome 22
465F5	15468	15659	Z77852	3.00E-70	1	DNA sequence from cosmid LUCA2 on chromosome 3p21.3 con
459B2	26193	26772	Z82248	0	2	DNA sequence from clone LL22NC03-44A4 on chromosome 22
478E5	49480	49615	Z83847	6.00E-50	1	DNA sequence from clone RP3-496C20 on chromosome 22 Con
469E6	4705	5229	Z83851	0	1	DNA sequence from clone 989H11 on chromosome 22q13.1-13
517H5	128852	129155	Z85986	1.00E-156	1	DNA sequence from clone 108K11 on chromosome 6p21 Conta
114C1	15995	16486	Z93016	1.00E-121	3	DNA sequence from clone RP1-211D12 on chromosome 20q12-
118A8	77940	78185	Z93016			
	117801	118272	Z97989	0	2	DNA sequence from PAC 66H14 on chromosome 6q21-22. Cont
	132708	132773	Z97989			



Table 3C: Table of novel human nucleotide sequences compared to assembled human sequences, depicting putative exon-intron structure

Clone	Accession	Exon		Genome	Start	Stop	Exon		Genome	Start	Stop	Exon		Genome	Start	Stop	Exon		Genome	Start	Stop
		Clone	Stop				Clone	Stop				Clone	Stop				Clone	Stop			
47D11	NT_008080	90	407	480193	479876	406	588	478843	478662												
53G7	NT_008080	4	204	478642	478842	204	459	479917	480171												
62C9	NT_015169	29	224	220269	220464	321	384	220540	220603	449	518	220668	220737	517	774	220958	221215				
62G9	NT_006328	1	145	566357	566213	144	219	565724	565649	217	315	563987	563889	315	418	563775	563672				
65B1	NT_008098	243	454	2418134	2418345	303	482	2421648	2421807												
65D10	NT_025892	218	401	369301	369483	404	541	370290	370427												
65D11	NT_025892	98	241	367311	367453	240	425	369301	369486	423	562	370288	370427	561	690	376519	376648				
65D12	NT_025892	98	219	367333	367453	218	399	369301	369483	402	541	370290	370427								
72D4	NT_008060	1	198	478646	478843	197	489	479876	480168	491	585	489271	489365								
73A7	NT_008060	1	197	478646	478842	197	538	479917	480259												
75B12	NT_010265	1	171	308301	309471	169	267	315278	315376	264	441	316976	317153	440	588	317239	317387				
cont'd NT_010265	587	658	319041	319112																	
100B5	NT_008098	16	142	556012	558138	143	336	560579	560772	331	416	561268	561353								
105B11	NT_022315	2	226	66662	66888	429	491	89124	89185												
170F9	NT_010194	4	324	6405088	6405388	323	485	6407864	6408008												
144F5	NT_011595	1	280	125097	124818	345	491	120524	120378	279	347	123833	123765	490	559	118918	118747				
166H7	NT_009729	59	130	537939	537868	127	281	537177	537023	282	362	529971	529891	363	581	495932	495414				
cont'd NT_009729	579	672	491513	491419																	
171A10	NT_009151	2	244	6556227	6556469	245	396	6556693	6556845												
98E1	NT_008098	12	138	558012	558138	139	328	580579	580768	330	508	561271	561447								
134B4	NT_011612	3	251	12617461	12517709	252	338	12519881	12519967	336	448	12523936	12524048								
172E5	NT_008935	5	449	1427508	1427952	448	551	1434457	1434560												
176F12	NT_011520	48	309	6163505	6163768	308	409	6163868	6163987												
51B9	NT_021980	75	578	120596	121099	3	79	120203	120279												
51B12	NT_007140	1	85	309298	309214	79	609	300215	299684												
191F6	NT_010184	7	330	6405063	6405386	329	473	6407864	6408008												
459F10	NT_008982	1	121	92783	92903	116	314	93005	93202												
461H12	NT_023539	19	94	332693	332768	92	166	334220	334294	164	298	334438	334572	300	470	335340	335510				
463C3	NT_010478	1	186	1307774	1307960	183	314	1308993	1309124	315	429	1309210	1309324	427	559	1309492	1309625				
465B3	NT_010222	41	227	700808	700892	227	414	701556	701743												
513G4	NT_005130	1	134	384702	384569	133	204	383722	383651	202	281	378695	378616	287	346	299615	299558				
516E10	NT_023563	1	169	9743	9576	169	309	8111	7971												
466B10	NT_006292	1	331	936308	935877	244	745	935875	935374												
466F9	NT_024872	17	186	64694	64525	184	295	61751	61640	294	626	59515	59185								
121B6	NT_023169	2	98	183171	183075	258	455	184978	184779	460	576	163071	162955								
462D1	NT_023923	139	298	191231	191072	297	528	180168	189937												
64G9	NT_025892	68	210	367311	367453	208	394	369301	369486	392	531	370288	370427								
467C6	NT_010101	1	73	1265999	1266071	218	330	1295695	1295807	330	468	1315073	1315211	467	547	1315798	1315878				
cont'd NT_010101	546	687	1334907	1335047																	
467G9	NT_011157	69	142	917117	917044	142	253	916080	915979												
476G4	NT_007592	58	121	2382380	2382443	120	382	2382598	2382840												
477E1	NT_008680	1	116	1185208	1185323	116	472	1186107	1186462												
477A11	NT_006292	1	325	936300	935877	238	851	935875	935262												
480A3	NT_010478	1	99	2220394	2220492	181	525	2221546	2221890												
518H1	NT_005337	1	73	2383056	2383128	125	229	2386650	2386754	227	366	2393104	2393243								
519A9	NT_016632	64	193	172305	172434	191	279	176990	177078												
521F2	NT_023563	3	107	7651	7756	110	254	7868	8111												
597A4	NT_023563	1	109	7647	7755	109	256	7864	8111	256	452	9575	9771								
491G11	NT_010265	1	127	284740	284866	123	242	288529	288648												
494B11	NT_007343	25	246	3168142	3167921	244	334	3162477	3162387												
479A1	NT_015169	1	109	293941	293833	112	217	289082	288977	216	338	285931	285811								

**Table 4: Patient groups and diagnostic gene sets.**

Group A represents a patient group with a disease characteristic of interest. This characteristic either exists at the time of the leukocyte expression profile or develops subsequently as noted in the second column. Leukocyte expression profiles from patient in Group A are compared to those from patients in Group B (control subjects). Genes with expression characteristics in leukocytes that distinguish groups A and B form diagnostic gene sets for the condition.

<u>Group A</u>	<u>Group A Event</u>	<u>Group B</u>	<u>Gene Set</u>
Atherosclerosis	At time of profile	No atherosclerosis	Diagnostic of disease
Restenosis	Subsequent to profile	No restenosis	Predictive of disease occurrence
Myocardial infarction	Subsequent to profile	No myocardial infarction	Predictive of disease complications
Death from congestive heart failure	Subsequent to profile	No death, congestive heart failure	Prognostic for known disease
Transplant allograft rejection	Subsequent to profile	Transplant allograft, no rejection	Risk stratification for disease
CHF responsive to beta blocker (improved ejection fraction)	Subsequent to profile	CHF unresponsive to beta blocker	Predictive of drug responsiveness
Improvement in angina after smoking cessation	At time of profile	No improvement in angina after smoking cessation	Assessment of efficacy of non-pharmacologic therapy
Improvement in angina after pro-angiogenic drug therapy	At time of profile	No improvement in angina after pro-angiogenic drug therapy	Assessment of efficacy of pharmacologic therapy
Positive results (atherosclerosis) at angiography	Subsequent to profile	Negative results (atherosclerosis) at angiography	Assessment of selection for further diagnostic testing
Active systemic lupus erythematosus (SLE)	At time of profile	Inactive SLE	Diagnosis of disease

**Table 4 (continued): Patient groups and diagnostic gene sets.**

<b><u>Group A</u></b>	<b><u>Group A Event</u></b>	<b><u>Group B</u></b>	<b><u>Gene Set</u></b>
Development of cardiac allograft vasculopathy	Subsequent to profile	No development of cardiac allograft vasculopathy	Predictive of disease
Patients at time of angioplasty		Same patients presenting later with restenosis	Identification of pathway genes/targets
Endothelial Dysfunction	At time of profile	No endothelial dysfunction	Diagnosis, disease monitoring
Unstable angina	At time of profile	Atherosclerosis without unstable angina	Diagnosis of disease complication

**Table 5: Nucleotide sequence databases used for analysis**

<b>Database</b>	<b>Version</b>	<b>Description</b>	<b>Location of file</b>	<b>Threshold of Significance Used</b>
nr	Release 123.0	GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS, GSS, or HTGS sequences). No longer "non-redundant".	ftp://ncbi.nlm.nih.gov/blast/nt.Z	Expect value (e) < 10 <sup>-25</sup>
dbEST	04/10/01	Non-redundant Database of GenBank+EMBL+ DDBJ EST Division	ftp://ncbi.nlm.nih.gov/blast/est_human.Z	Expect value (e) < 10 <sup>-25</sup> .
UniGene_unique	Build 132	One sequence selected from each UniGene cluster (the one with the longest region of high-quality sequence data).	ftp://ncbi.nlm.nih.gov/pub/shuler/unigene/Hs.seq.uniq.Z	Expect value (e) < 10 <sup>-25</sup>
Human Genome	Build 22	Sequence data of all contigs used to assemble the human genome	ftp://ncbi.nlm.nih.gov/genomes/H_sapiens/CHR_#/hs_chr#.fa.gz	Expect value (e) < 10 <sup>-25</sup>

**Table 6: Algorithms used for exon and polypeptide prediction**

<b>Algorithm</b>	<b>Description</b>	<b>Web address</b>
Genscan	Predicts the locations and exon-intron structures of genes in genomic sequences.	<a href="http://genes.mit.edu/GENSCAN.html">http://genes.mit.edu/GENSCAN.html</a>
Genomescan	Incorporates protein homology information when predicting genes.	<a href="http://genes.mit.edu/genomescan.html">http://genes.mit.edu/genomescan.html</a>
GrailEXP	Predicts exons, genes, promoters, polyAs, CpG islands, EST similarities, and repetitive elements within a DNA sequence.	<a href="http://grail.lsd.ornl.gov/grailexp/">http://grail.lsd.ornl.gov/grailexp/</a>
G-Known	Predicts genes and features of a DNA sequence at user-specified levels of complexity. Can incorporate extra information supplied by user including gene predictions from other gene finding programs, EST hits, similarities to known proteins, syntenic between corresponding genomic regions in related organisms, methylation of the bases, regulatory binding sites, and topology information.	<a href="http://www.cse.ucsc.edu/research/compbio/pgf/">http://www.cse.ucsc.edu/research/compbio/pgf/</a>
FGENES	Uses linear and hidden Markov models for exon prediction	<a href="http://genomic.sanger.ac.uk/gf/gf.shtml">http://genomic.sanger.ac.uk/gf/gf.shtml</a>

**Table 7: Databases and algorithms used for Protein Analysis**

<b>Algorithm</b>	<b>Description</b>	<b>Web address</b>
BLASTP, version 2.0	Identification of unknown protein or subunit based on similarity to known proteins or subunits.	<a href="http://www.ncbi.nlm.nih.gov/BLAST/">http://www.ncbi.nlm.nih.gov/BLAST/</a>
BLASTX	Algorithm for translating a nucleotide query sequence and aligning the translation to sequences in protein databases	<a href="http://www.ncbi.nlm.nih.gov/BLAST/">http://www.ncbi.nlm.nih.gov/BLAST/</a>
TBLASTN	Algorithm for aligning an unidentified peptide sequence to predicted translations of nucleotide sequences	<a href="http://www.ncbi.nlm.nih.gov/BLAST/">http://www.ncbi.nlm.nih.gov/BLAST/</a>
SWISS-PROT, release 39.0	Protein sequence database	<a href="http://www.expasy.ch/cgi-bin/sprot-search-de">http://www.expasy.ch/cgi-bin/sprot-search-de</a>
Protein International Resource (PIR)	Protein sequence database	<a href="http://www-nbrf.georgetown.edu/pirwww/">http://www-nbrf.georgetown.edu/pirwww/</a>
GenPept	Amino acid translations from GenBank/EMBL/DDBJ records that are annotated with one or more CDS features	<a href="ftp://ncbi.nlm.nih.gov/genbank/genpept.fsa.gz">ftp://ncbi.nlm.nih.gov/genbank/genpept.fsa.gz</a>
TrEMBL	Contains the translations of all coding sequences present in the EMBL Nucleotide Sequence Database, which are not yet integrated into SWISS-PROT	<a href="http://www.ebi.ac.uk/swissprot/">http://www.ebi.ac.uk/swissprot/</a>
Prosite, release 16.39	Database of protein families and domains. Consists of biologically significant sites, patterns and profiles.	<a href="http://www.expasy.ch/prosite/">http://www.expasy.ch/prosite/</a>
Pfam, version 6.2	Collection of multiple sequence alignments and hidden Markov models covering many common protein domains	<a href="http://www.sanger.ac.uk/Software/Pfam/">http://www.sanger.ac.uk/Software/Pfam/</a>
ProDom, version 2001.1	Domain arrangements of proteins and protein families	<a href="http://protein.toulouse.inra.fr/prodom.html">http://protein.toulouse.inra.fr/prodom.html</a>
TMpred	Prediction of transmembrane regions to aid in subcellular localization and function predictions	<a href="http://www.ch.embnet.org/software/TMPRED_form.html">http://www.ch.embnet.org/software/TMPRED_form.html</a>

Table 8

SEQ ID	Origin	Unigene	Locus	GI	Nominal Description	Strand	Probe Sequence
1	cDNA T-cells	Hs.100001	NM_005074	4827009	solute carrier family 17 (sodium phosphate), member 1 (SLC17A1),	1	AGAGCACTTGCAGAGCCTGGGACAA
2	cDNA T-cells	Hs.104157	AW988823	8158664	EST380899 cDNA /gb=AW988823	1	CCTCCTTATTGAAGGGAAGAGGGAC
3	cDNA T-cells	Hs.104157	AW988823	8158664	direction unknown	1	TGGTCTCAAAGATTTACATGGCAACA
4	literature	Hs.1051	NM_004131	7262379	Complement of EST380899 cDNA /gb=AW988823 direction unknown	-1	TTGCAAAAGTCCCGCAGAGAAGTCCT
5	cDNA T-cells	Hs.105230	AA489227	2218829	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) (GZMB),	1	AGGACTTCTCTGGGACTTTGGAATG
6	cDNA T-cells	Hs.105230	AA489227	2218829	aa57107.s1 cDNA, 3' end /clone=IMAGE:825061 strand unknown	1	TTGCCATGTAATCTTTGAGACCA
7	cDNA T-cells	Hs.107979	NM_014313	7657594	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) (GZMB),	1	AGGTGCCAGCAACTGAATAAATACCT
8	cDNA T-cells	Hs.10888	AK025212	10437679	aa57107.s1 cDNA, 3' end /clone=IMAGE:825061 strand unknown	-1	CTCCAGTGTAAATCTGGAGCCAA
9	cDNA T-cells	Hs.10888	AK025212	10437679	Complement, aa57107.s1 cDNA, 3' end /clone=IMAGE:825061 strand unknown	-1	TAAGGAGTGTGGAGATATGTGATTT
10	cDNA T-cells	Hs.1100	M55654	339491	GGCTAGTGCTATTTAAAGACACCC	1	CCCACAGTGCATTCAGAATATGCTC
11	cDNA T-cells	Hs.11000	NM_015344	7662509	small membrane protein 1 (SMP1), mRNA /cds=99,	1	AGGGAATGCCAGCCACCTTGTAA
12	cDNA T-cells	Hs.1101	NM_002698	4505958	cDNA: FLJ21559 fis, clone COL06406 /cds=UNKNOWN	1	GCCAAAGACAATAAGCTAGGCTACTG
13	cDNA T-cells	Hs.11238	AB014522	3327057	complement cDNA: FLJ21559 fis, clone COL06406 /cds=UNKNOWN	-1	GTCCAGCTACTACTTTGGTGGGAT
14	cDNA T-cells	Hs.116481	NM_001782	4502682	TATA-binding protein mRNA, complete cds /cds=(241,12	1	ATCCCAACCAAGTAGTAGCTGGACCC
15	cDNA T-cells	Hs.295726	M14848	340306	MY47_BRAIN MY047 PROTEIN	1	AGTAGCCTAGCTTATTGTCTTGGC
16	cDNA T-cells	Hs.119155	AL109786	5725475	POU domain, class 2, transcription factor 2 (P	1	AATTATAACTCTAGGGGTTATTCT
17	cDNA T-cells	Hs.119155	AL109786	5725475	KIAA0622 protein; Drosophila "multiple asters" (Mast)-like homolog 1	1	GTGCCAGACACATTCCACCTCTC
18	cDNA T-cells	Hs.121025	NM_014205	7656935	CD72, B cell differentiation antigen	1	ACTAATTGCATTGGCAGCATTGTGTC
19	cDNA T-cells	Hs.126256	NM_000576	10835144	cell adhesion protein (vitronectin) receptor alpha 6 Platelets, megakaryocytes	1	TTTGACCTTGATACTAGCTTGAC
20	cDNA T-cells	Hs.126925	AK023275	10435137	mRNA full length insert cDNA clone EUROMIMAGE 81	1	AAACCAAAAATAATCAACAACAGAAAC
21	cDNA T-cells	Hs.1279	AK024951	10437374	Complement of mRNA full length insert cDNA clone EUROMIMAGE 82	-1	CAGCTGCCCAAAGGACACAGAGG
22	cDNA T-cells	Hs.129780	NM_003327	4507578	GAP-associated tyrosine phosphoprotein p82 (Sam88)	1	TTTATTGGTACTTCTAAAGATAGAGA
23	cDNA T-cells	Hs.1309	M28825	180035	chromosome 11 open reading frame 5 (C11ORF5), m	1	CTAAAGTCATGGTAGTATTGGCC
24	cDNA T-cells	Hs.1349	NM_000758	4503076	interleukin 1-beta (IL1B) mRNA, monocytes, macrophages	1	GGCCAATACTACCCTAGCTTAGTCT
25	cDNA T-cells	Hs.136375	BF513274	11598453	FLJ13213 fis, clone NT2RP4001126, weakly	1	CTATCTTTAGGAAGTACCAATAAA
26	cDNA T-cells	Hs.136375	BF513274	11598453	FLJ21298 fis, clone COL02040, highly sim	1	CCTCCCATTTTGTCTCGGAAGATTA
27	cDNA T-cells	Hs.137548	NM_003874	4502688	OX40 homolog, ACT35 Antigen, TNF receptor superfamily, member 4	1	AATGCTACATGTGTAGTCTGCCT
28	cDNA T-cells	Hs.1416	M15059	182447	thymocyte antigen CD1a mRNA	1	CCGTGCCCGGAACAGGCCGTGGCT
29	cDNA T-cells	Hs.142023	NM_005816	5032140	colony stimulating factor 2 (granulocyte-macrophage) (CSF2),	1	AGAGAAGAGCGAGATCATCTTTACC
30	cDNA T-cells	Hs.1481	NM_002112	4504384	ESTs, Weakly similar to S65824 reverse transcriptase homolog (3' EST read)	1	GGTCTAATTTATTCAAAGGGGCAAG
31	cDNA T-cells	Hs.150403	NM_000790	4503280	Complement of ESTs, Weakly similar to S65824 reverse transcriptase homolog (3' EST read)	-1	AAGTAGCAGTGTCTGTAAAGAGC
32	cDNA T-cells	Hs.1513	NM_000629	10835182	CD84 antigen (leukocyte antigen) (CD84)	1	AGATGGGTGAATCAGTGGGTTTTGT
33	cDNA T-cells	Hs.153053	NM_001774	4502682	Fc-epsilon receptor (IgE receptor) mRNA, complete cd	1	AAATAGTGTATGTGGGAAGACA
34	cDNA T-cells	Hs.153952	X55740	23898	TACT-T-CELL SURFACE PROTEIN	1	TCTCTAGTGTCACTTTCCTCTTCCAC
35	cDNA T-cells	Hs.153952	X55740	23898	histidine decarboxylase (EC 4.1.1.22) (HDC),	1	TTTGATACCATTGGGTCAATGGAA
						1	TCAAAGAAAGCCTTCTGGATGCTGT
						1	TAAGATGTACCTTCAGGTGAACC
						1	CCCCCTTTCCTTCTAATTTTTCAGCTC
						1	CTTCAATGCAAAGTACATGTATT
						1	CCTCCAACCCCGGAACTTCCTGTGC
						1	AACCCAGACTATCACCTTTGAAAG
						1	GGAAGGTAGTCTTCAATTTGCAATCAG
						-1	GAAAACGAACGTAAAGGCACAGGT
						-1	ACCTGTGCCCTTACGTTTCGTTTCCT
						1	GATTGCAATGAAGACTACCTTCC
						1	TGTTTTCTCACTACATTGTACATGTG
						1	GGAATTACAGATAAACGGAAGCC
						1	CAGAGCAAGACCCCTGAAGACCCCA
						1	ACCACGCCCTAAAGCCTCTTTGTG
						1	GCTTCATATGTATGGCTGTTGCTTG
						1	CTTCATGTGTATGGCTATTTGTAT
						1	CAGATGGGTTACAGAGTCTGGTCAGT
						1	GAGAAAGGCCGAGGGTAGACAGG
						1	TCCAGGGCAATCAATGTTTACGCAAC
						1	TTGAAATTATATCTGTGGCTTCA
						1	TCATCCCAGAACATTGGCTTCCACA
						1	TCACAGTATCTACCTTACATGGT
						1	CGCTCTCGATATCTCTGTGCAGAAAC
						1	CTGGACCAGCTCTACAACCGGCTC
						1	CCTGCTCAGCTCTGCATAAGTAATTC
						1	AAGAAATGGAGGCTTACACCTTAA

Table 8

36	cDNA T-cells	Hs.155595	NM_004404	4758157	Neural precursor cell expressed, developmentally down-regulated 5	1	GGAGGACCCACACTGCTACACTTCTG
37	cDNA T-cells	Hs.1570	Z34897	510295	H1 histamine receptor	1	ATCCCCCTTTGGTTTTACTACCCAA
38	cDNA T-cells	Hs.159557	AK024833	10437239	FLJ21180 fis, clone CAS11176, highly sim	1	GAAGAACAGCAGATGGCGGTGATCA
39	cDNA T-cells	Hs.160417	NM_013390	7019554	transmembrane protein 2 (TMEM2), mRNA /cds=(14	1	GCAGAGAGATTGAACCTTGAGGAGG
40	cDNA T-cells	Hs.16488	BC007911	14043948	calreticulin	1	GGAATTTCTATCTTGACGATCCTG
41	cDNA T-cells	Hs.166120	NM_004031	4809287	interferon regulatory factor 7 (IRF7), trans	1	TAAATAACATTCAAGTCCACCCT
42	cDNA T-cells	Hs.166975	NM_006925	5902077	splicing factor, arginine/serine-rich 5 (SFR)	1	CCTCAAAGTGCTACCGATAAACCTTT
43	literature	Hs.167988	S71824	632775	N-CAM=145 kda neural cell adhesion molecule	1	CTAATTGTAAGTGCCCTTACTAAG
44	cDNA T-cells	Hs.168103	AF026402	2655201	U5 snRNP 100 kD protein mRNA, cds /cds=(39,2501	1	AGTGGGTCCCAGATTGGCTCACACT
45	cDNA T-cells	Hs.168132	U14407	540098	interleukin 15 (IL15) mRNA	1	GAGAATGTAAGAACTACAAACAAA
46	literature	Hs.168383	NM_000201	4557877	intercellular adhesion molecule 1 (CD54), rhinovirus receptor (ICAM1),	1	CTGTCCAGCGCCAACAGCCTCTATGA
47	cDNA T-cells	Hs.169191	U58913	4204907	chemokine (hmrp-2a) mRNA, complete cds /cds=(71,484)	1	CGACATCGAGTGCTTCTTATGGA
48	literature	Hs.169610	AJ251595	6491738	transmembrane glycoprotein (CD44 gene),	1	AAATTCTGGTAAGTATGCTTTTCTG
49	cDNA T-cells	Hs.170311	D89678	3218539	50 for A+U-rich element RNA binding factor,	1	TGGGGGTGGGATTGGAAGGGGG
50	cDNA T-cells	Hs.170311	D89678	3218539	60 for A+U-rich element RNA binding factor,	1	ATGGGTGAAGAGAACCGAGCAAGA
51	cDNA T-cells	Hs.170311	D89678	3218539	70 for A+U-rich element RNA binding factor,	1	TCAAAATAAAAGTGACACAGCAGC
52	cDNA T-cells	Hs.171763	X59350	36090	mRNA for B cell membrane protein CD22	1	GCTGTGTCATCTTTGTCACTGAGTG
53	cDNA T-cells	Hs.171917	AB037855	7243265	mRNA for KIAA1434 protein, partial cds	1	AAATCTCTGTTTTCTATTCTCTGA
54	cDNA T-cells	Hs.172089	AL110202	5817121	cDNA DKFZp586I2022 (from clone DKFZp586I	1	ATGTGCTGTCAAACAAGTTTTCTGT
55	cDNA T-cells	Hs.172089	AL110202	5817121	Complement of cDNA DKFZp586I2022 (from clone DKFZp586I	-1	CAAGAAGATGATCAGACCTTGGA
56	literature	Hs.1722	M28983	186279	50 interleukin 1 alpha (IL 1) mRNA, macrophages	1	CAGTGATCAGGTCCTGCAAGCAGT
57	literature	Hs.1722	M28983	186279	60 interleukin 1 alpha (IL 1) mRNA, macrophages	1	GGGGAAGGGGGCCAAGTATTGGAG
58	literature	Hs.1722	M28983	186279	70 interleukin 1 alpha (IL 1) mRNA, macrophages	1	TGGACACACGGATCAAGACCAGGAA
59	literature	Hs.1724	X01057	33812	50 mRNA for interleukin-2 receptor	1	GAATTGAACCTGTCAAGGTGAAGGG
60	literature	Hs.1724	X01057	33812	60 mRNA for interleukin-2 receptor	1	AACAGACCCCTCTAGAAAATTTTCA
61	literature	Hs.1724	X01057	33812	70 mRNA for interleukin-2 receptor	1	GATGCTTCTGGGAGACACCAAGG
62	cDNA T-cells	Hs.172631	J04145	189068	neutrophil adherence receptor alpha-M subunit mRNA	1	GTCAGTAGGTGCGGTGTCTAGGGTA
63	cDNA T-cells	Hs.305870	NM_003761	14043025	vesicle-associated membrane protein 8 (endob	1	GTGTAAGTTGTGTGGTCAAGTTCG
64	cDNA T-cells	Hs.172791	NM_004182	4759297	ubiquitously-expressed transcript (UXT), mR	1	TTAACCTGCCAGGAGACAGAGCT
65	literature	Hs.173894	NM_000757	4503074	macrophage-specific colony-stimulating factor (CSF-1)	1	TTGTGACTCTGAATCCCATGTTCTCA
66	cDNA T-cells	Hs.174103	NM_002209	4504756	Integrin, alpha L (CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)	1	AACTACGCTGCCTTCCGAAGTCTG
67	cDNA T-cells	Hs.174142	X03663	29899	c-fms proto-oncogene Monocytes	1	TTTAAGTACTAAGTCATCATTTGCCT
68	cDNA T-cells	Hs.169610	AA156937	1728552	z19c02.s1 Soares_pregnant_uterus_NbHPU	1	GAAAGTTTCTCTGCATTGGGTT
69	cDNA T-cells	Hs.17483	NM_000816	10835166	CD4 antigen (p55) (CD4),	1	AACCCAAATGCAGAGGAACTTCAAG
70	cDNA T-cells	Hs.177559	U05875	463549	clone pSK1 interferon gamma receptor accessory factor	1	GCAATGATGACTTAGTACTTAA



Table 8

71	cDNA T-cells	Hs.179526	S73591	688296	brain-expressed HCPA78 homolog	1	AAGATGCCCAACCTGTGATCAGAAC
72	cDNA T-cells	Hs.1799	J04142	619799	VDUP1 (Gene)	1	CTCCAAATACTGCCATGAGAACT
73	cDNA T-cells	Hs.180804	AK000271	7020240	(lambda-gli1ht-5) MHC class I antigen-like gl	1	CAGGAGTTTGTGTGCTTTTATAAAAA
74	cDNA T-cells	Hs.180866	NM_000416	4557879	cDNA FLJ20264 fis, clone COLF7912 /cds=UNKNOWN	1	GTTTGCCCTGGATGTCATATTGG
75	cDNA T-cells	Hs.181165	AK026650	10439548	interferon gamma receptor 1 (IFNGR1),	1	CCCTGAGTGACAGTCACGACAGAAC
76	cDNA T-cells	Hs.181357	NM_002295	9845501	FLJ22997 fis, clone KAT11962, highly sim	1	AAAACCAACAAGACCAGACCACATTT
77	cDNA T-cells	Hs.187660	NM_014504	7657495	laminin receptor 1 (67kD, ribosomal protein SA	1	CCTTTACATCCAGATAGGTTACCAGT
78	cDNA T-cells	Hs.182740	NM_001015	14277698	Major histocompatibility complex, class I, E (HLA-E)	1	AACGGAACATATCCAGTACTCCTG
79	cDNA T-cells	Hs.187660	NM_014504	7657495	ribosomal protein S11 (RPS11), mRNA /cds=(15,4	1	TGCATCGTAAACCTTCAGAAAGGAAA
80	cDNA T-cells	Hs.197345	NM_001469	4503840	putative Rab5 GDP/GTP exchange factor homologu	1	GGAGAAATGTTTTGTGGACCACTTT
81	cDNA T-cells	Hs.198253	M33906	184194	thyroid autoantigen 70kD (Ku antigen) (G22P1),	1	GGCCACTGAATGGGTAGGAGCAACC
82	cDNA T-cells	Hs.197345	NM_001469	4503840	MHC class II HLA-DQA1 mRNA, complete cds /cds=(43,810)	1	ACTGACTGGTCTTAAGCTGTTCTTG
83	cDNA T-cells	Hs.198253	M33906	184194	thyroid autoantigen 70kD (Ku antigen) (G22P1),	1	TGTAGGGTAAATGTGACTGGAATACA
84	cDNA T-cells	Hs.1987	NM_006139	5453610	MHC class II HLA-DQA1 mRNA, complete cds /cds=(43,810)	1	CCTTTGGAACGGAATCTTTATCA
85	cDNA T-cells	Hs.336769	NM_002074	11321584	CD28 antigen (Tp44) (CD28)	1	AGGCTGGACATCGGCCCGCTCCCCA
86	cDNA T-cells	Hs.211576	L10717	307507	guanine nucleotide binding protein (G protein)	1	CAATGAAATAAGTTATTTTCTCAT
87	cDNA T-cells	Hs.336769	NM_002074	11321584	T cell-specific tyrosine kinase mRNA, complete	1	TGTAGGGTAAATGTGACTGGAATACA
88	cDNA T-cells	Hs.2186	AF119850	7770136	guanine nucleotide binding protein (G protein)	1	CCTTTGGAACGGAATCTTTATCA
89	cDNA T-cells	Hs.21807	NM_007067	5901961	PRO1608 mRNA, complete cds /cds=(1221,2174) /	1	GTTGCCATGGTGAATGGGTAGCCCTC
90	cDNA T-cells	Hs.2200	NM_005041	4826941	histone acetyltransferase (HBOA), mRNA /cds=	1	CCACTTGTCTGTTCTTACTTTAC
91	cDNA T-cells	Hs.2233	NM_000759	4503078	Perforin 1 (pore forming protein; PRF1)	1	CCACCCACCCCTCAATTAAGGCAACA
92	cDNA T-cells	Hs.2236	Z29067	479172	granulocyte colony-stimulating factor 3 (G-CSF)	1	ATGAAGTTAATGGATACCCCTCTGC
93	cDNA T-cells	Hs.233936	NM_006471	5453739	NEK3, SERINE/THREONINE-PROTEIN KINASE NEK3	1	GTTGCCATGGTGAATGGGTAGCCCTC
94	cDNA T-cells	Hs.236449	NM_024898	13376352	myosin, light polypeptide, regulatory, non-s	1	CCACTTGTCTGTTCTTACTTTAC
95	cDNA T-cells	Hs.238648	NM_003999	4557039	cDNA: FLJ22757 fis, clone KAI0803 /cds=(92,24	1	CCACCCACCCCTCAATTAAGGCAACA
96	cDNA T-cells	Hs.238707	NM_024901	13376358	oncosteratin-M specific receptor beta subunit (OSMRB)	1	ATGAAGTTAATGGATACCCCTCTGC
97	cDNA T-cells	Hs.239138	NM_005746	5031976	cDNA: FLJ22457 fis, clone HRC09925 /cds=(56,14	1	GCTCACCTATTTGGGTTAAGCATGCC
98	cDNA T-cells	Hs.239189	NM_014905	7662327	pre-B-cell colony-enhancing factor (PBEF), m	1	AATTTAAGAGACCAAGTGTTATGT
99	cDNA T-cells	Hs.241392	NM_002985	4506846	glutaminase (GLS),	1	TCCACCTTTTGTATTTAATTTAAAGT
100	cDNA T-cells	Hs.241567	NM_016638	8400721	small inducible cytokine A5 (RANTES) (SCYA5),	1	CAGTGACTGCAAGGAAGCTGGA
101	cDNA T-cells	Hs.241570	NM_000594	10835154	RNA binding motif, single stranded interacting	1	AGATCTTCAAGTGAACATCTTTGGC
102	cDNA T-cells	Hs.247885	NM_022304	13435404	Tumor necrosis factor (TNF) superfamily, member 2	1	ATCACCTAGCTGCCTGCACCTGCC
103	cDNA T-cells	Hs.248156	NM_020530	10082620	Histamine receptor H2 (HRH2)	1	GCTAATTTAAGCATGTTCAAGTGGA
104	cDNA T-cells	Hs.298469	NM_000789	4503272	oncosteratin M (OSM),	1	GCTCCCTCCAGTTCAAGTGTAC
105	cDNA T-cells	Hs.336780	NM_006088	5174734	dipeptidyl carboxypeptidase 1 (angiotensin I converting enzyme) (ACE)	1	CCTGTGATCAGGCTCCCAAGTCTGGT
106	cDNA T-cells	Hs.252723	NM_000981	4506608	tubulin, beta, 2 (TUBB2), mRNA	1	TCCCATGAGGTGAGATGCAACCTG
107	cDNA T-cells	NA	X53795	35832	ribosomal protein L19 (RPL19), mRNA /cds=(28,8	1	ACATGGTTTGACTCCCGAACATCACC
108	literature	Hs.25848	NM_001250	4507580	R2 mRNA for an inducible membrane protein /cds=(158,95	1	GACGTGTCTCCTGTTTTCTGGGT
109	cDNA T-cells	Hs.258503	AF160973	5616319	Tumor necrosis factor receptor superfamily, member 5	1	TCAGAGCTGAAGAAGGAGCTGGAT

Table 8

110	cDNA T-cells	Hs.265829	NM_002204	4504746	integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3),	1	GGCTGTGTCTTAAGGCCCATTTGAGA AGCTGAGGCTAGTTCCAAAAACCT
111	cDNA T-cells	Hs.271387	Y16645	2916795	for monocyte chemotactic protein-2 /cds=	1	GTGCTCCTGTAAGTCAAAATGTGTGCT TTGTACTGCTGTTGTTGAAATTGA
112	cDNA T-cells	Hs.272493	NM_004167	14602450	small inducible cytokine subfamily A (Cys-Cys	1	CAGAGACATAAAGAGAAAGATGCCAAG GCCCCCTCCTCCACCCACCGCTAA
113	cDNA T-cells	Hs.176663	NM_000570	10835138	Fc fragment of IgG, low affinity IIb, receptor for (CD16) (FCGR3B),	1	ATGGGAGTAATAAGAGCAGTGGCAG CAGCATCTCTGAACATTTCTCTGGA
114	literature	Hs.278443	NM_004001	4557021	Fc fragment of IgG, low affinity Iib, receptor for(CD32) (FCGR2B),	1	CCACTAATCCTGATGAGGCTGACAAA GTTGGGGCTGAGAACACAATCACC
115	cDNA T-cells	Hs.62954	J04755	182512	ferritin H processed pseudogene, complete cds /cds=UN	1	TGTTGGGGTTTCCCTTACCTTTTCTAT AAGTTGTACCAAAACATCCACTT
116	cDNA T-cells	Hs.279581	AK000575	7020763	FLJ20568 fis, clone REC00775 /cds=(8,422)	1	CAGAGTAGGCATCTGGGACCAAGA CCTTCCTCCTCAAGAGGACACTGAG
117	cDNA T-cells	Hs.279930	V00522	32122	encoding major histocompatibility complex gene	1	CTTTGCCTAAACCCCTATGGCTCCTG TGCACTCTGTACTACCGCTGTACCA
118	cDNA T-cells	Hs.181357	NM_002295	9845501	Laminin receptor 1 (67kD, ribosomal protein SA)	1	GGCCACTGAATGGGTAGGAGCAACC ACTGACTGGTCTTAAGCTGTTCTTG
119	cDNA T-cells	Hs.283722	NM_020151	9910251	GTT1 protein (GTT1), mRNA /cds=(553,1440) /gb	1	TGATTCTGCATCTGGGGTCTTGCTGT ACAGTACTCATGTCACTGTAATG
120	cDNA T-cells	Hs.78961	NM_014110	13699255	PRO2047 protein (PRO2047), mRNA /cds=(798,968)	1	TGTGTAATAGGCCTTTTTCATGCTTAT GTGTAGCTTTTACCTGTAACTT
121	cDNA T-cells	Hs.334853	NM_006013	5174430	cDNA DKFZp762B195 (from clone DKFZp762B195)	1	AAGTTATCATGTCCATCCGACCAAG CTGCAGAACCAAGGAGCATGTGATT
122	cDNA T-cells	Hs.334853	NM_006013	5174430	Complement cDNA DKFZp762B195 (from clone DKFZp762B195)	-1	AAGTTATCATGTCCATCCGACCAAG CTGCAGAACCAAGGAGCATGTGATT
123	cDNA T-cells	Hs.284283	U90552	2062705	butyrophilin (BTF5) mRNA, complete cds /cds=(359,190)	1	TGGTGGATGTTAAACCAATTTCTTT CAACTGCTGCCTGCTAGGAAAT
124	cDNA T-cells	Hs.286212	AK021791	10433048	cDNA FLJ11729 fis, clone HEMBA1005394, moderate	1	TGAACCTGCTGAATGTAAGCAGGCT ACTATGCGTTAATACTAATCACA
125	cDNA T-cells	Hs.287369	NM_020525	10092624	50 interleukin 22 (IL22), mRNA /cds=(71,610) /gb	1	ATTTGACCAGAGCAAAGCTGAAAAAT GAATAACTAACCCCTTTCCCTGC
126	cDNA T-cells	Hs.287369	NM_020525	10092624	60 interleukin 22 (IL22), mRNA /cds=(71,610) /gb	1	GCAATTGGAGAACTGGATTCTGTGT TATGTCTCTGAGAAATGCCTGCATTT GACCAGAG
127	cDNA T-cells	Hs.287369	NM_020525	10092624	70 Interleukin 22 (IL22), mRNA /cds=(71,610) /gb	1	TTTGACCAGAGCAAAGCTGAAAAATG AATAACTAACCCCTTTCCCTGCTAG AAATAACAATTAGATGCC
128	cDNA T-cells	Hs.288061	NM_001101	5016088	actin, beta (ACTB),	1	CCCTTTTGTCCCCCAACTTGAGATG TATGAAGGCTTTTGGTCTCCCTGG
129	cDNA T-cells	Hs.315054	NM_032921	14249707	hypothetical protein MGC15875 (MGC15875),	1	ATTAGACCAGACAGTGTATTTCTAA AGAAAACTCTGACATGCACAGCCA
130	cDNA T-cells	Hs.289088	NM_005348	13129149	heat shock 90kD protein 1, alpha (HSPCA),	1	GACCCCTACTGCTGATGATACCAAGTGC TGCTGTAACCTGAAGAAATGCCACC
131	cDNA T-cells	Hs.28052	AK000196	7020122	FLJ2189 fis, clone COLF0657 /cds=(122,84)	1	ACAGGCAAAGTGACAGGGGAAAGG AATTAGTCTAAGAGTAAGGGGATGA
132	cDNA T-cells	Hs.291129	AA837754	2912953	oe10d02.s1 cDNA /clone=IMAGE:1385475 /gb=AA	1	CTTTCCTCTTGCTGCTGGGGCTAGG TCTTCTTGCTGCTGCTTCTTTTC
133	cDNA T-cells	Hs.292590	D59502	960608	HUM041H11A cDNA, 3' end /clone=GEN-041H11 /d	1	AGAGTTTTTGTGGTAGCTGGAGCT GGGATGTTGAATCAACCTGCTCA
134	cDNA T-cells	Hs.292590	D59502	960608	Complement HUM041H11A cDNA, 3' end /clone=GEN-041H11 /d	-1	TGCCTGAGGTTGATTCAACATCCCAG CTCCAGTCTACCAACAAAACTCT
135	cDNA T-cells	Hs.99858	X61923	36646	Ribosomal protein L7a Gene with exons / Introns	1	CTGACGATCAGCTTGGAACAGCCAAA CAGAATTAACGCAACTAATAACCT
136	cDNA T-cells	Hs.323463	AL050141	4884352	cDNA DKFZp586O031 (from clone DKFZp586O0	1	TCCTTTTATGCATTGGAGGAAAAACA TGTTGGCTTTTCTCTTGGCTGGG
137	cDNA T-cells	Hs.323463	AL050141	4884352	Complement cDNA DKFZp586O031 (from clone DKFZp586O0	-1	CCCACGTCAGAGAAAAGCCAACTG TTTTTCTCCTCAATGCATAAAAGGA
138	cDNA T-cells	Hs.323822	AB046771	10047166	for KIAA1551 protein, partial cds /cds=(0)	1	CTCAGGAAACCCGACAGAAAGAACAT GTAACACAGAACTCACGTCCACTA
139	cDNA T-cells	NA	AF347015	13273284	Mitochondrial DNA, cytochrome B gene	1	ACTCGAGACGTAAATATGGCTGAAT CATCCGCTACCTTCACGCCAATGG
140	cDNA T-cells	Hs.30035	U61267	1418285	putative splice factor transformer2-beta mRN	1	TGCTGTTTTCATTCTGCATTTGTGTAG TTTGGTGCTTTGTTCCAAGTTAA
141	cDNA T-cells	Hs.30909	NM_019081	11464998	KIAA0430 gene product (KIAA0430), mRNA /cds=(	1	AAAAATGACAAAAGTTATCAACAAAA CCCCCTTTCCCATCTTGCACTGTT
142	cDNA T-cells	Hs.3195	NM_002995	4508852	sapiens small inducible cytokine subfamily C, member 1 (lymphotactin) (SCYC1),	1	AGCTTTTAAATGCTCCAAATGCTGACC CATGCAATATTTCTCATGTGATC
143	cDNA T-cells	Hs.322845	AL050376	4914609	mRNA; cDNA DKFZp586J101 (from clone DKFZp586J1	1	AAAAGAAATGCAGGTTTATATCCAG CACTGAGAGAGTTAACAGGACTG
144	cDNA T-cells	Hs.324481	AL050376	4914609	Complement mRNA; cDNA DKFZp586J101 (from clone DKFZp586J2	-1	AGAGAGACTTCTCATTGGCTGTGAAG GTAGAGCTTTTGGGGAAATTCCTG
145	cDNA T-cells	Hs.324481	AW968541	8158382	Complement EST380617 cDNA /gb=AW968541 unknown coding strand	-1	CAGGAATTTCCCAAAAGCTCTACCT TCACAGCCAAATGAGAAAGTCTCTCT
146	cDNA T-cells	Hs.324481	AW968541	8158382	EST380617 cDNA /gb=AW968541 unknown coding strand	1	AGAGAGACTTCTCATTGGCTGTGAAG GTAGAGCTTTTGGGGAAATTCCTG

Table 8

147	cDNA T-cells	Hs.327	NM_001558	4504632	Interleukin-10 receptor mRNA, complete IL10RA	1	CATCTCAGCCCTGCCTTTCTCTGGAG
148	cDNA T-cells	Hs.32970	NM_003037	4506968	signaling lymphocytic activation molecule (S	1	CATTCTGAAAAACAGATATTCTGGC
149	literature	Hs.334687	NM_000569	12056966	Fc fragment of IgG, low affinity IIIa, receptor for (CD16) (FCGR3A)	1	TCATGATAACCTGCGACCTGATCAA
150	cDNA T-cells	Hs.303649	M26683	184641	Interferon gamma treatment inducible mRNA Monocytes	1	GCCTCTGTGCCTCAGTTTCTCTCT
151	cDNA T-cells	Hs.105938	X53961	34415	lactoferrin /cds=(294,2429) Neutrophils	1	ATGGGGGTAAATAAGAGCAGTAGCAG
152	cDNA T-cells	Hs.36	D12614	219911	lymphotoxin (TNF-beta), complete cds T-cells, B-cells	1	CAGCATCTCTGAACATTCTCTGGA
153	cDNA T-cells	Hs.278670	AB034205	6899845	Acid-inducible phosphoprotein	1	GAAATTGCTTTTCTCTTGAACCACA
154	cDNA T-cells	Hs.3886	NM_002267	4504898	karyopherin alpha 3 (importin alpha 4) (KPNA3)	1	GTTCTACCCCTGGGATGTTTTGAG
155	cDNA T-cells	Hs.394	NM_001124	4501944	adrenomedullin (ADM),	1	AATTCTCAGGAAGTAAACCCGAAGA
156	literature	Hs.40034	NM_000885	6006032	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) (ITGA4)	1	AGATGGCCGAGCTCCCAAGAAAG
157	cDNA T-cells	Hs.41724	NM_002190	4504650	interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8)	1	AACATCCAAGGAGAAACAGAGACAG
158	cDNA T-cells	Hs.44163	NM_018838	10092656	13kDa differentiation-associated protein (L	1	GCCCAAGAGATGAAGAGTGAGAGGG
159	cDNA T-cells	Hs.44928	X60708	35335	pCHDP7 mRNA for liver dipeptidyl peptidase IV /cds=(75	1	TCGTGTGAATCAGACTAAGTGGGATT
160	literature	Hs.46	D10202	219975	for platelet-activating factor receptor,	1	TCATTTTACAACCTCTGCTTACT
161	cDNA T-cells	Hs.48433	NM_014345	7657183	endocrine regulator (HRIHFB2436), mRNA /cds=	1	GCATATACAAGTTGGAAGACTAAAGA
162	cDNA T-cells	Hs.50002	AB000887	2189952	for EBI1-ligand chemokine, complete cds	1	GGTGCAATGTGATCTGAACTTCCA
163	cDNA T-cells	Hs.50404	U88358	2388626	chemokine (TECK) mRNA, complete cds /cds=(0,452) /gb	1	TGAGTGTGTTGTGTGCATGAAAGAG
164	cDNA T-cells	Hs.50964	NM_001712	4502404	carcinoembryonic antigen-related cell adhesion molecule 1 (CEACAM1)	1	AAAGACTGATTACCTCTGTGTGG
165	cDNA T-cells	Hs.301921	NM_001295	4502630	chemokine (C-C motif) receptor 1 (CCR1),	1	AGCTGTTCCCAATTTCAGACAGT
166	cDNA T-cells	Hs.54457	NM_004356	4757943	CD81 antigen (target of antiproliferative antibody 1)	1	GGACCATATCACTTTAAAGCCCT
167	cDNA T-cells	Hs.54460	U46573	1280140	eotaxin precursor mRNA, complete cds /cds=(53,346) /	1	ATCAACAGACCAACATTTTCTCTTCC
168	cDNA T-cells	Hs.54609	NM_014291	7657117	glycine C-acetyltransferase (2-amino-3-keto	1	TCAAGCAACACTCCTAGGGCCCTG
169	cDNA T-cells	Hs.55921	NM_004446	4758293	glutamyl-prolyl-IRNA synthetase (EPRS), mRN	1	TATGACTGATGATCCTCCAACAACA
170	cDNA T-cells	Hs.57987	NM_022898	12597634	B-cell lymphoma/leukaemia 11B (BCL11B), mRNA	1	AACCACTTACTGCTGCTAAATTCA
171	cDNA T-cells	Hs.59403	NM_004863	4758667	serine palmitoyltransferase, long chain base subunit 2 (SPTLC2)	1	AAAATACTGATGTTCTAGTGAAGA
172	cDNA T-cells	Hs.5985	NM_020240	9910377	non-kinase Cdc42 effector protein SPEC2 (LOC56990),	1	GGCAGCTTGAACTGAGATGTGAA
173	cDNA T-cells	Hs.6179	BG929114	14323637	Does not hit the NM_ numbers two splice variants. Direction unknown	1	GGAAGACTTTAAACAGTCTTCTC
174	cDNA T-cells	Hs.62192	J02931	339501	placental tissue factor (two forms) mRNA, complete cd	1	CCACTGGGGCATCGGTCTAAAGCT
175	cDNA T-cells	Hs.62192	NM_001993	10518499	coagulation factor III (thromboplastin, tissue factor)(F3), mRNA	1	CCCTGTTCCACAAACCATATGATC
176	literature	Hs.624	NM_000584	10834977	interleukin 8 (IL8),	1	CTTCTCTCAACCTCTCTTCTG
177	literature	Hs.62954	NM_002032	4503794	50 ferritin, heavy polypeptide 1 (FTH1), mRNA /c	1	GTGTGTGAGTGTGAGTGTGAGCGAG
178	literature	Hs.62954	NM_002032	4503794	60 ferritin, heavy polypeptide 1 (FTH1), mRNA /c	1	AGGGTGAGTGTGGTCAGAGTAAAG
179	literature	Hs.62954	NM_002032	4503794	70 ferritin, heavy polypeptide 1 (FTH1), mRNA /c	1	TCTGGTCATTCAAGGATCCCTCCCA
180	literature	Hs.652	NM_000074	4557432	tumor necrosis factor (ligand) superfamily, member 5, TNFSF5	1	AGGCTATGCTTTTCTATAACTTTT
181	cDNA T-cells	Hs.66053	AB051540	12698050	mRNA for KIAA1753 protein, partial cds /cds=(0	1	GGCAGCTCAGGACCACTCCAATGAC
182	cDNA T-cells	Hs.66151	AL157438	7018513	mRNA; cDNA DKFZp434A115 (from clone DKFZp434A1	1	CCACCTAACAAAGTGAAGTTTA
183	cDNA T-cells	Hs.6975	NM_014086	7682589	PRO1073 protein (PRO1073),	1	TGTTCTTCATCTAAGCCTTCTGGTTT
184	cDNA T-cells	Hs.70186	NM_003169	4507312	suppressor of Ty (S.cerevisiae) 5 homolog (SUP	1	ATGGGTGAGTTCGACTGCCA

Table 8

185	cDNA T-cells	Hs.70258	N21089	1126259	IMAGE:265324 Foreskin 3' read 2.0 kb	1	AACCTGCACAAGCATGTAATAAAAGA
186	cDNA T-cells	Hs.70258	N21089	1126259	Complement IMAGE:265324 Foreskin 3' read 2.0 kb	-1	GCACACTTAAAAACATCTGACCA
187	cDNA T-cells	Hs.70258	AA743863	2783214	IMAGE:1308639 5' read, perfect hit.	1	TGGTCAGAATGTTTTTAAGTGTGCTC
188	cDNA T-cells	Hs.70258	AA743863	2783214	Complement IMAGE:1308639 5' read, perfect hit.	-1	TTTTATTACATGCTTGTGCAGGTT
189	cDNA T-cells	Hs.72918	NM_002981	4506832	small inducible cytokine A1 (IL-309, homologous to mouse Tca-3) (SCYA1)	1	CCTTCTGAAGGTGTATAGATACAGCT
190	cDNA T-cells	Hs.73165	U64198	1685027	IL-12 receptor beta2 mRNA, complete cds /cds=(640,322)	1	TGCTCTGAAATGTCTTCTCCACA
191	cDNA T-cells	Hs.737	NM_004907	4758313	immediate early protein (ETR101), mRNA /cds=(	1	TGTGGAGAAAGACATTTCAAGACAAG
192	cDNA T-cells	Hs.73742	NM_001002	4506666	ribosomal protein, large, P0 (RPLP0),	1	CTGTATCTATACACCTTCAGAAGG
193	cDNA T-cells	Hs.73792	J03565	181919	Epstein-Barr virus complement receptor type II (cr2)	1	TGCTAGGTCACAGAGGATCTGCTTGG
194	cDNA T-cells	Hs.73798	NM_002415	4505184	macrophage migration inhibitory factor (MIF)	1	TCTTGATAAGCTATGTTGTTGCAC
195	cDNA T-cells	Hs.738	NM_003973	4506600	ribosomal protein L14 (RPL14), mRNA /cds=(17,6	1	CTAGAGGACCATTTCATGCAATGACTA
196	cDNA T-cells	Hs.73800	NM_003005	6031196	selectin P (granule membrane protein 140kD, antigen CD62) (SELP)	1	TTTCTAAAGCAGCTGCTACACAGC
197	cDNA T-cells	Hs.73817	D90144	219905	LD78 alpha precursor, complete cds /c	1	GGGAGTTTCTGAGGTCTGCTTTGTT
198	cDNA T-cells	Hs.73818	NM_006004	5174744	ubiquinol-cytochrome c reductase hinge prote	1	TACCTTTCTGCGGTTGGATTCTTT
199	cDNA T-cells	Hs.73839	NM_002935	4506550	ribonuclease, RNase A family, 3 (eosinophil cationic protein) (RNASE3)	1	TCCGAGGAGTCCGACGAGGATATGG
200	cDNA T-cells	Hs.73917	M13982	186334	interleukin 4 (IL-4) mRNA	1	GATTTGGTCTCTTGACTAATCACC
201	cDNA T-cells	Hs.74011	NM_002286	11693297	lymphocyte-activation gene 3 (LAG3),	1	TTCTCTCTCGGTGGTGTATCATTT
202	cDNA T-cells	Hs.74085	X54870	35062	NKG2-D gene /cds=(338,988) /gb=X54870 /gi=3	1	CGTTTTTACCCTTTACCTTCGGA
203	cDNA T-cells	Hs.74335	NM_007355	6680308	heat shock 90kD protein 1, beta (HSPCB), mRNA /	1	GTCTACATCACTATTACGACATGAA
204	cDNA T-cells	Hs.74621	NM_000311	4506112	prion protein (p27-30) (Creutzfeld-Jakob dis	1	CGCGGCCAATGTGGGCTGGAACAA
205	cDNA T-cells	Hs.75249	D31885	505097	ADP-ribosylation factor-like 6 interacting protein	1	CAGAAAGGTCAAAAGCTCCAGCCC
206	cDNA T-cells	Hs.75348	NM_006263	5453989	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha) (PSME1),	1	AGAAAGCACCTGCTCCAAAGGCCATC
207	cDNA T-cells	Hs.75545	X52425	33833	interleukin 4 receptor	1	GACCTTCTGCCACCACTGCTGTCC
208	cDNA T-cells	Hs.75598	NM_000878	4504664	interleukin 2 receptor, beta (IL2RB),	1	CTCAAATGACCAAGACCAATAT
209	literature	Hs.75613	M24795	178670	CD36 antigen mRNA	1	GAGATGGGGAGGGCTACCAAGAT
210	cDNA T-cells	Hs.75678	NM_006732	5803016	FBJ murine osteosarcoma viral oncogene homolo	1	TATCCACTTTACAACGGAGACAG
211	cDNA T-cells	Hs.75703	J04130	178017	50 activation (Act-2) mRNA, complete cds /cds=(108,386)	1	ATGGGTTTGGCTTGAGGCTGGTAGCT
212	cDNA T-cells	Hs.75703	J04130	178017	60 activation (Act-2) mRNA, complete cds /cds=(108,386)	1	TCTATGTAATTGCGAATGATTCCA
213	cDNA T-cells	Hs.75703	J04130	178017	70 activation (Act-2) mRNA, complete cds /cds=(108,386)	1	CATCCCTCCATGTACTCTGGGTATCA
214	cDNA T-cells	Hs.75968	NM_021109	11056060	thymosin, beta 4, X chromosome (TMSB4X), mRNA	1	GCAACTGTCTCATCAGTCTCCAT
215	cDNA T-cells	Hs.76506	NM_002298	7382490	lymphocyte cytosolic protein 1 (L-plastin) (L	1	ACCTTACAGGAGATCATCAAACTTT
216	cDNA T-cells	Hs.76640	NM_014059	7662650	RGC32 protein (RGC32), mRNA /cds=(146,499) /g	1	GAACAGCCTCACAGAGCAGAAGAC
217	cDNA T-cells	Hs.76753	NM_000118	4557554	endoglin (Osler-Rendu-Weber syndrome 1) (ENG),	1	GAGAAGACAGTGGCGACCAAGACGA
218	cDNA T-cells	Hs.77039	NM_001006	4505722	ribosomal protein S3A (RPS3A), mRNA /cds=(36,8	1	TTTTCTGCCTTAGAGCAAGGGATT
219	literature	Hs.77318	L13385	349823	Miller-Dieker lissencephaly protein (LIS1)	1	CAGGGGATCAGTGAAGGAGAGAG
220	cDNA T-cells	Hs.77424	X14356	31331	high affinity Fc receptor (FcRI) /cds=(36,116	1	AGACTTGAGGTGATGATAGTTGGC
221	cDNA T-cells	Hs.77502	BC001854	12804818	, methionine adenosyltransferase II, alpha, c	1	CCAGATTTTCCCCAAACTTCTCTCTG

Table 8

222	cDNA T-cells	Hs.77729	NM_002543	4505500	oxidized low density lipoprotein (lectin-like	1	AGAACAACTAAGCCAGGTATGCAAA
223	cDNA T-cells	Hs.77729	AB010710	2828355	lectin-like oxidized LDL receptor	1	TATCGCTGAATAGAAACAGATGGA
224	cDNA T-cells	Hs.78146	M28526	189775	platelet endothelial cell adhesion molecule (PECAM-1)	1	AGAACAACTAAGCCAGGTATGCAAA
225	cDNA T-cells	Hs.78225	NM_000700	4502100	annexin A1 (ANXA1), mRNA	1	TATCGCTGAATAGAAACAGATGGA
226	literature	Hs.785	NM_000419	6006009	integrin, alpha 2b (platelet glycoprotein IIb	1	GCAATTCCTCAGGCTAAGCTGCCGGT
227	cDNA T-cells	Hs.78713	NM_002635	4505774	solute carrier family 25 (mitochondrial carrier	1	TCTTAAATCCATCCTGCTAAGTTA
228	cDNA T-cells	Hs.78864	M31932	182473	IgG low affinity Fc fragment receptor (FcRIIa) mRNA, c	1	TCCTGGTGGCTCTTTGTGGAGGAAAC
229	cDNA T-cells	Hs.789	X54489	34625	melanoma growth stimulatory activity (MGSA)	1	TAAACATTCCCTTGATGGTCTCAA
230	literature	Hs.78986	BC000491	12653440	proliferating cell nuclear antigen	1	CTTTGGGTGGAGCTGTTCCATTGGG
231	cDNA T-cells	Hs.79008	NM_012245	6912675	SKI-INTERACTING PROTEIN (SNW1), mRNA /cds=(2	1	TCCTCTGGGTGCTGTTCCCTCCC
232	cDNA T-cells	Hs.79022	U10550	762886	Gem GTPase (gem) mRNA, complete cds /cds=(213,1103) /	1	AGAAAAAGCTTGGGTTAACTCAGTAG
233	cDNA T-cells	Hs.79110	NM_005381	4885510	nucleolin (NCL),	1	TTAGATCAAAGCAAATGTGGAGCTG
234	cDNA T-cells	Hs.79197	NM_004233	4757945	CD83 antigen (activated B lymphocytes, immuno	1	ACAGATGTAGCAACATGAGAAACGCT
235	cDNA T-cells	Hs.79630	S75217	241773	mb-1/IgM-alpha	1	TATGTTACAGGTTACATGAGGCA
236	cDNA T-cells	Hs.80358	NM_004653	4759149	SMC (mouse) homolog, Y chromosome (SMCY), mRNA	1	TGTTTAATGGTAGTTTTACAGTGTTC
237	cDNA T-cells	Hs.80420	U84487	1888522	CX3C chemokine precursor, mRNA, alternatively splice	1	TGGCTTAGAACAAAGGGGCTTAA
238	cDNA T-cells	Hs.80617	NM_001020	14591912	ribosomal protein S16 (RPS16), mRNA /cds=(37,4	1	TGCCAGCATATTGAGTGAAGTCTTTCT
239	cDNA T-cells	Hs.80642	L78440	1479978	STAT4 mRNA, complete cds /cds=(81,2327) /gb=L	1	GTCACCAATTTGTACCTCTAAGT
240	cDNA T-cells	Hs.81226	X60992	29817	CD8 mRNA for T cell glycoprotein CD8 /cds=(120,152	1	GCTGCATATGAGTAAAGTTACCCCAA
241	cDNA T-cells	Hs.8128	NM_014338	13489111	phosphatidylserine decarboxylase (PISD),	1	CCACAGTGAGGAGCAAGATGTTCA
242	cDNA T-cells	Hs.81564	NM_002619	4505732	platelet factor 4 (PF4), mRNA.	1	AAACCTCCAGTACTTTGGTTGACCCT
243	cDNA T-cells	Hs.81665	X06182	34084	c-kit proto-oncogene mRNA /cds=(21,2951) /gb=X06182	1	TGTATGTCACAGCTCTGCTCTATT
244	cDNA T-cells	Hs.82132	NM_002460	4505286	50 interferon regulatory factor 4 (IRF4), mRNA /	1	ACCTGTCAATGACAGAGCCTTGTA
245	cDNA T-cells	Hs.82132	NM_002460	4505286	60 interferon regulatory factor 4 (IRF4), mRNA /	1	GGACATTCAGACAGTATACAGT
246	cDNA T-cells	Hs.82132	NM_002460	4505286	70 interferon regulatory factor 4 (IRF4), mRNA /	1	GCCCTTCCCTCTTGGTTCCAAAGG
247	literature	Hs.82359	X63717	28741	AP0-1 cell surface antigen /cds=(220,122	1	CATTATTGCTGAGTTATATTGTTT
248	literature	Hs.82401	NM_001781	4502680	CD69 antigen (p80, early T-cell) Activated B & T cells.	1	CTGATTGTAGCAGCCTCGTTAGTGT
249	cDNA T-cells	Hs.279841	NM_006296	5454163	vaccinia related kinase 2 (VRK2), mRNA /cds=(1	1	ACCCCTCCTCCTGATCTGTGTCAG
250	cDNA T-cells	Hs.82829	M25393	190740	protein tyrosine phosphatase (PTPase) mRNA, complete	1	ACCAAAAGAAATAGGGAAACAAAGA
251	literature	Hs.82848	NM_000855	5713320	selectin L (lymphocyte adhesion molecule 1) (	1	ATTTCATGACTCTACCTGTGGTCT
252	cDNA T-cells	Hs.83077	D49950	1405318	for interferon-gamma inducing activated macrophages	1	GACTTTTCCAACTCATCACCAACG
253	cDNA T-cells	Hs.83086	L38935	1008845	GT212 mRNA /cds=UNKNOWN /gb=L38935 /gi=100884	1	TCTGTGCCATTGTTGTAATTTACTA
254	cDNA T-cells	Hs.83583	NM_005731	5031598	actin related protein 2/3 complex, subunit 2 (	1	GCTCGCTACCAGAAATCCTACCGATA
255	cDNA T-cells	Hs.83731	NM_001772	4502654	CD33 antigen (gp87) (CD33), mRNA.	1	AGCCCATCGTGACTCAAACTCAC
256	cDNA T-cells	Hs.838	NM_005191	4885122	CD80 antigen (CD28 antigen ligand 1, B7-1 anti	1	ACCTGAGTCCCAACAACATTTGAACT
257	literature	Hs.83968	NM_000211	4557885	integrin, beta 2 (antigen CD18 (p95), macrophage antigen 1 (mac-1)	1	GCAATGAAAGTCTCCTTATCTGCT
258	literature	Hs.84	D11086	303611	interleukin 2 receptor gamma chain	1	AATTGATGAGGATGCTCTGGGAGG
259	cDNA T-cells	Hs.845	U31120	1045451	interleukin-13 (IL-13) precursor gene, activated T cells	1	GATGCGTGACTATGTGGTGTCAC
260	cDNA T-cells	Hs.85258	M12824	339426	T-cell differentiation antigen Leu-2/TB mRNA	1	GATGAGGCGACCTGACTCTCTTAA

Table 8

261	cDNA T-cells	Hs.85266	X51841	33910	mRNA for integrin beta(4) subunit	1	CAGCGGAACCCCTTAGCACCCACATG GACCAACAGTCTCTCCAACTTGAC
262	literature	Hs.856	NM_000619	10835170	interferon, gamma (IFNG), mRNA T-cells, NK cells	1	ATGCCTGGTGCTTCCAAATATTGTTG ACAACCTGTGACTGTACCCAAATGG
263	cDNA T-cells	Hs.87149	M35999	183532	platelet glycoprotein IIIa (GPIIIa) mRNA, complete c	1	CCTCTCTCCAAACCCGTTTCCAAACA TTTGTAAATAGTTACGTCTCTCCT
264	cDNA T-cells	Hs.87409	X14787	37464	thrombospondin /cgs=(111,3623) /gb=X14787	1	TCATTTGTTGTGTGACTGAGTAAAGA ATTTTGGATCAAGCGGAAGAGT
265	cDNA T-cells	Hs.88474	M59979	189886	prostaglandin endoperoxide synthase	1	TGAGGATGTAGAGAGAACAGGTGGG CTGTATTCACGCCATTGGTTGGAAG
266	cDNA T-cells	Hs.88820	NM_016649	7705402	HDCMC28P protein (HDCMC28P),	1	GAAATTAATGGGTTCAGGTCTTAA AGAAAGTGCAGAAGAGATGGTCAA
267	cDNA T-cells	NA	AQ336195	4143104	cDNA clone IMAGE:4143104 blood 3' read	1	AACCACTATCATCTACGGCACAACCT TGCAAAAGCTGTCCACACCACTTT
268	literature	Hs.89137	X13918	34338	LDL-receptor related protein	1	CCCGTTTTGGGGACGTGAACGTTTTA ATAATTTTTGCTGAATCTTTTACA
269	cDNA T-cells	Hs.89414	AF147204	6002763	chemokine receptor CXCR4-Lo (CXCR4) mRNA, alt	1	TCAGTTTTAGGAGTGGGTGATTTC AGCACCTACAGTGTACAGTCTTGT
270	cDNA T-cells	Hs.89476	M16336	180093	T-cell surface antigen CD2 (T11) mRNA, complete cds, c	1	AGCCTATCTGCTTAAGAGACTCTGGA GTTTCTTATGTGCCCTGGTGGACA
271	cDNA T-cells	Hs.89575	M89957	179311	immunoglobulin superfamily member B cell receptor co	1	GAGTAGAAGGACAACAGGGCAGCAA CTTGGAGGGAGTTCTCTGGGGATGG
272	literature	Hs.89679	NM_000586	10835148	50 Interleukin 2 (IL2),	1	GTTCTGGAACATAAGGGATCTGAAAC AACATTTCATGTGTGAATATGCAGA
273	literature	Hs.89679	NM_000586	10835148	60 Interleukin 2 (IL2),	1	TGGAACATAAGGGATCTGAAACAACA TTCATGTGTGAATATGCAGATGAGAC
274	literature	Hs.89679	NM_000586	10835148	70 Interleukin 2 (IL2),	1	AGCAACCA CAGGGACTTAATCAGCAATATCAACG
275	cDNA T-cells	Hs.89751	NM_021950	11386186	CD20 antigen	1	TAATAGTTCTGGAACATAAGGGATCT GAAACAACATTTCATGTGT
276	cDNA T-cells	Hs.89887	D38081	533325	thromboxane A2 receptor	1	ACCCATTCCATTTATCTTTCTACAGG GCTGACATTGTGGCATTCTTAG
277	cDNA T-cells	Hs.93304	U24577	1314245	LDL-phospholipase A2 mRNA, complete cds /cgs=(216,15	1	TGAACCTCCACAGGGGAGGGCTCTGT CCAGAAAGGATTGAATGTGAACG
278	cDNA T-cells	Hs.93649	NM_003367	4507846	upstream transcription factor 2, c-fos intera	1	TGAAGGAGATGATGAGAATCTTATTC CAGGGACCAACATTAAACACAACCA
279	literature	Hs.93913	X04430	32673	IFN-beta 2a mRNA for Interferon-beta-2, T-cells, macrophages	1	CTCTCTGGAGTACTGAGACAGGGT GCTGATGGGAAGGAGGGGAGCCTTT
280	cDNA T-cells	Hs.960	NM_000590	10834979	Interleukin 9 (IL9),	1	CTCTTCGGCAAATGTAGCATGGGGAC CTCAGATTGTTGTTGTTTAAATGGCG
281	cDNA T-cells	Hs.96023	M28170	862622	cell surface protein CD19 (CD19) gene, Most B cells	1	TTCCAGAAAGAAAAGATGAGAGGGAT GAGAGGCAAGATATGAAGATGAAA
282	cDNA T-cells	Hs.96487	BF222828	11130003	ESTs, Highly similar to S08228 ribosomal protein S2, cytosolic	1	GGCCAGCCTGGACCACTCATGAGG AAGATGCAGACTCTTATGAGAACAT
283	cDNA T-cells	Hs.9663	NM_013374	7019486	programmed cell death 6-interacting protein (PDCD6IP),	1	AATGTTTGCCGAGAATAAAGAAAATA AGCTTTGCACACACTCTCAATTCT
284	cDNA T-cells	Hs.96731	AB014555	3327123	mRNA for KIAA1375 protein, partial cds /cgs=(0	1	GGGAAAGAAATACCAACCCTGCAATA AGTGTACTAAACTCTACGCTCTGG
285	literature	Hs.99863	NM_001972	4503548	elastase 2, neutrophil (ELA2),	1	CACCAGCGCCTTGGCTTTGTGTTAGC ATTTCTCTCTGAAGTGTCTGTTG
286	cDNA T-cells	Hs.99899	NM_001252	4507604	tumor necrosis factor (ligand) superfamily, member 7 (TNFSF7)	1	ACATCGTGATTCTCCAGCTCAACGGG TCGGCCACCATCAACGCCAAGCTG
287	literature	Hs.169476	NM_002046	7669491	50 Glyceraldehyde-3-phosphate dehydrogenase	1	AGCTACGTATCCATCGTGATGGCATC TACATGGTACACATCCAGGTGACG
288	literature	Hs.169476	NM_002046	7669491	60 Glyceraldehyde-3-phosphate dehydrogenase	1	CCACACTGAATCTCCCTCCCTCAGAG TTGCCATGTAGACCCCTTGAGAG
289	literature	Hs.169476	NM_002046	7669491	70 Glyceraldehyde-3-phosphate dehydrogenase	1	CAGTCCCCCACCACACTGAATCTCCC CTCCTCACAGTTGCCATGTAGACCCC
290	literature	Hs.169476	NM_002046	7669491	50 Complement Glyceraldehyde-3-phosphate dehydrogenase	-1	TTGAAGAG CCATGTAGACCCCTTGAGAGGGGA
291	literature	Hs.169476	NM_002046	7669491	60 Complement Glyceraldehyde-3-phosphate dehydrogenase	-1	GGGGCCTAGGGAGCGCACCTTGTC ATGTACCATCAATAAAGTAC
292	literature	Hs.169476	NM_002046	7669491	70 Complement Glyceraldehyde-3-phosphate dehydrogenase	-1	CTCTTCAAGGGGTCTACATGGCAACT GTGAGGAGGGGAGATTCAAGTGTGG
293	literature	Hs.182937	NM_021130	10863926	50 peptidylprolyl isomerase A (cyclophilin A), clone	1	CTCTTCAAGGGGTCTACATGGCAACT GTGAGGAGGGGAGATTCAAGTGTGG
294	literature	Hs.182937	NM_021130	10863926	60 peptidylprolyl isomerase A (cyclophilin A), clone	1	GGGGGACTG GTACTTTATTGATGGTACATGACAAG
295	literature	Hs.182937	NM_021130	10863926	70 peptidylprolyl isomerase A (cyclophilin A), clone	1	GTGCGGCTCCCTAGGCCCTCCCT CTTCAAGGGGTCTACATGG
296	literature	Hs.182937	NM_021130	10863926	50 complement peptidylprolyl isomerase A (cyclophilin A), clone	-1	TTTCCTTGTTCCTCCCATGCCTAGC TGGATTGCAGAGTTAAGTTTATGA

Table 8

297	literature	Hs.182937	NM_021130	10863926	60 complement peptidylprolyl isomerase A (cyclophilin A), clone	-1	TATTTTCATAATCATAAACTTAACTCTG CAATCCAGCTAGGCATGGGAGGGAA CAAGGAAA
298	literature	Hs.182937	NM_021130	10863926	70 complement peptidylprolyl isomerase A (cyclophilin A), clone	-1	TTATTTTCATAATCATAAACTTAACTCT GCAATCCAGCTAGGCATGGGAGGGGA ACAAGGAAAACATGGAAAC
299	literature	Hs.288883	NM_005877	5032086	mRNA for splicing factor (SF3A1) (120kD)	1	GTCATCCACCTGGCCCTCAAGGAGA GAGGCGGGAGGAAGAAGTAGACAAG
300	literature	Hs.12084	NM_003321	4507732	Tu translation elongation factor, mitochondrial (TUFM)	1	TGACTGAGGAGGAGAAGAATATCAAA TGGGGTTGAGTGTGCAGATCTCTG
301	literature	Hs.75887	NM_004371	6996002	coatomer protein complex, subunit alpha (COPA)	1	TGGTTTTCCAAAATGCACACTGCGGG TTATTGATTGTTCTTTACAACATA
302	literature	Hs.182278	NM_001743	4502548	calmodulin 2 (phosphorylase kinase, delta) (CALM2),	1	ACTGTACAGCATGTTGTTGTTGAAGTG TGGAGTTGTAACCTGCGGTGGACT
303	literature	Hs.2795	NM_005586	5031856	mRNA for lactate dehydrogenase-A (LDH-A, EC 1.1.1.27)	1	TGAGTCACATCCTGGGATCCAGTGTA TAAATCCAATATCATGCTCTTGTC
304	literature	Hs.1708	NM_005998	5174726	chaperonin containing TCP1, subunit 3 (gamma) (CCT3),	1	GTTCTGCTACTGCGAATTGATGACAT CGTTTCAGGCCACAAAAGAAAGG
305	literature	Hs.75428	NM_000454	4507148	superoxide dismutase (SOD-1) mRNA, complete cds	1	ACATTCCCTTGGATGTAGTCTGAGGC CCCTTAACTCATCTGTTATCCTGC
306	literature	Hs.2271	NM_001955	4503460	Arabidopsis endothelin-1 (EDN1)	1	ACTGGCTTCCATCAGTGGTAACTGCT TTGGTCTCTTCTTTCATCTGGGGA
307	literature	NA	X56062	16206	Arabidopsis CAB photosystem 1 chlorophyll a/b-binding protein (500 bp)	1	CCATTGGAGAAGTGGCAACTCACTT GGCGGATCCATGGCACAAACAT
308	literature	NA	X14212	16470	Arabidopsis RCA RUBISCO activase (513)	1	TTTTCTCCTTGTGTAATTGTGGATTG GATCTTGTCTCTTTTGTTCCTT
309	literature	NA	U91968	1928871	Arabidopsis RBCL ribulose-1,5-biophosphate carboxylase/oxygenase large subunit	1	TATTCCTTCGTGTGAGGGCTTGACCC AAGTATCCCCGCTTCTTACCCC
310	literature	NA	AF159801	8571922	Arabidopsis lipid transfer protein 4 (527)	1	CATCAAGTGAAGTGGGGAATAACGAC ATCATTTCCTGGAAGAGTATGGTT
311	literature	NA	AF159803	8571926	Arabidopsis lipid transfer protein 6 (477)	1	AATGAGGGCATTTGGTTTGTAGTTGC TAATTGATCAGTGATGTATTGTCA
312	literature	NA	AF191028	6708182	Arabidopsis papain-type cysteine endopeptidase (507)	1	TGGAATCAACAAGATGGCTTCTTTCC CCACCAAACTAAGTGATCATCAG
313	literature	NA	AF168390	6137137	Arabidopsis root cap 1 (533)	1	TGGACCGTAATGAATGAATGTACACG CCATAAACGCCCTTTGTTCAGCA
314	literature	NA	AF198054	6649235	Arabidopsis NAC1 (457)	1	CCTCACTCTGTACCCACGGTAGATT CATGTAAATACCCTTATGACGC
315	literature	NA	AF247559	7839390	Arabidopsis triphosphate isomerase (498)	1	GGTTAGCGACCTTGTGTTGTTGTTG TGTTCTTACATCTTCTTCTTGAAC
316	literature	NA	X58149	16440	Arabidopsis PRKase gene for ribulose-5-phosphate kinase (497)	1	GGCGAAAAGGACGGTCTTGTCTGTTT GTAATTTGTGTGGAGATAAAAGA
317	literature	Hs.288061	NM_001101	5016088	actin, beta (ACTB),	1	CCCTTTTGTCCCCCACTTGAGATG TATGAAGGCTTTTGGTCTCCCTGG
318	literature	Hs.77356	XM_002788	4507456	50 Transferrin receptor	1	TGAAATATCAGACTAGTGACAAGCTC CTGGTCTTGAGATGTCTTCTCGTT
319	literature	Hs.77356	XM_002788	4507456	60 Transferrin receptor	1	GGTTGAGTACTTCTCTCAAGCCAG TACCGTGCTAACAGGCTCAATATTCC
320	literature	Hs.77356	XM_002788	4507456	70 Transferrin receptor	1	TGAATGAA GTTGAGTTACTTCTATCAAGCCAGT ACCGTGCTAACAGGCTCAATATTCTT
321	literature	Hs.77356	XM_002788	4507456	50 Complement Transferrin receptor	-1	GAATGAAATATCAGACTA AACGAGAAGACATCTCAAGACCAGGA GCTTGCTACTAGTCTGATATTTC
322	literature	Hs.77356	XM_002788	4507456	60 Complement Transferrin receptor	-1	TTCAATCAGGAATATTGAGCCTGTTA GCACGGTACTGGCTTGATAGGAAGTA ACTCAACC
323	literature	Hs.77356	XM_002788	4507456	70 Complement Transferrin receptor	-1	TAGTCTGATATTTCATTACAGGAATATT GAGCCTGTTAGCAGGCTACTGGCTT GATAGGAAGTAACTCAAC
324	Tabel 3A	NA		36E9		1	TTTCAAGACAGAAAGTGACGCAGAGA ACCTCCCCGGCCAGTCTCGACGC
325	Tabel 3A	NA		36E9		-1	GCGTCGAGACTGGGCGGGGAGGTT CTCTGCGTCACTTCTGTCTTGAAA
326	Tabel 3A	NA		47D11		1	CCTAGACACCTGCATCAGTCAAGGTC ATGGATATTGGGAAGACAGACAGC
327	Tabel 3A	NA		47D11		-1	GCTGTCTGTCTTCCCAATATCCATGA CCTTGACTGATGCAGGTGTCTAGG
328	Tabel 3A	NA		53G7		1	AAATAAGAAGAGGAAAGAGAGAGGC CTGCCCTAACCCACTGTTGTGCTGA
329	Tabel 3A	NA		53G7		-1	TCAGCACACAGTGGGTTAGGGCAG GCCTCTCTTCTTCTTCTTATT
330	Tabel 3A	NA		62C9		1	CTCATGCCCTGCAGTGCTGCTCATGTT GCCCCCTTGGAAATTAATTGTTCAA
331	Tabel 3A	NA		62C9		-1	TTGAACAAGTAATCCAAGGGGGCAA CATGAGCAGCACTGCAGGCATGAG
332	Tabel 3A	NA		62G9		1	CCAATTTCTATAATTATGAACAGCTT TTCGTGGGGCCAGCACAAAGTCT



Table 8

333	Tabel 3A	NA	62G9	-1	AGACTTTGTGCTGGCCCCACGAAAAG CTGTTCAATAATTATAGAAATTGG
334	Tabel 3A	NA	65B1	1	TGGCTACAAATAGAGTAGAGAACAGA CTCCAGTCTCTCAAAGACTTTTCAGT
335	Tabel 3A	NA	65B1	-1	ACTGAAAGTCTTTGAGGACTGGAGTC TGTTCTCTACTCTATTGTAGCCA
336	Tabel 3A	NA	65D10	1	AGTTAAGATGGAAGAATATAGAGACC TTCTGAAGAGCACTGTAGCTTGGA
337	Tabel 3A	NA	65D10	-1	TCCAAGCTACAGTGCTCTTCAGAAGG TCTCTATATTCTCCATCTTAACT
338	Tabel 3A	NA	100D7	1	CACTCCTATGGCATGTGGAAGCAGGT CTGAGCAGTGTGCATAGAGAAAA
339	Tabel 3A	NA	100D7	-1	TTTTCTTCTATGCACACTGCTCAGAC CTGCTTCCACATGCCATAGGAGTG
340	Tabel 3A	NA	107H8	1	GCTCTCCGTTGACAATGGCCAAAGAA TAGAAGCTCTAGACCTTCCTTATT
341	Tabel 3A	NA	107H8	-1	AATAAGGAAGGTCTAGAGCTTCTATT CTTTGGCCATTGTCAACGGAGAGC
342	Tabel 3A	NA	129F10	1	GGCAAACGCACCTGGCACAACAGA ACGAATAATACAGAAGCTGGATGAC
343	Tabel 3A	NA	129F10	-1	GTCATCCAGCTTCTGTATTATTCGTTG TGTTGTGCCAGGTGCGTTTGGCC
344	Tabel 3A	NA	137B5	1	TAGCCATTTCTTCTGATTGTGCCTA GTATATCCCAGACAGTTTGTCTTCT
345	Tabel 3A	NA	137B5	-1	AGAAACAACTGTCTGGGATATACTA GGCACAATCAGGAAGAAATGGCTA
346	Tabel 3A	NA	139G6	1	GGTTGGAATGGTGATCGGGATGCAG TGAGATACTCTTGAGAGGGCAAA
347	Tabel 3A	NA	139G6	-1	TTTGCCCTCTCACAAGAGTATCTCAC TGCATCCCGATCACCATTCCAAACC
348	Tabel 3A	NA	142E4	1	GCCATGAGATTCAACAGTCAACATCA GTCTGATAAGCTACCCGACAAAGT
349	Tabel 3A	NA	142E4	-1	ACTTTGTGCGGTAGCTTATCAGACTG ATGTTGACTGTTGAATCTCATGGC
350	Tabel 3A	NA	142E9	1	AAGAGGACAAGTTTGAGAGGCAACA CTTAAACACTAGGGCTACTGTGGCA
351	Tabel 3A	NA	142E9	-1	TGCCACAGTAGCCCTAGTGTTTAAGT GTTGCCCTCTAAACTTGTCTCTT
352	Tabel 3A	NA	142F9	1	ATTGCTTTAAATTGAGTTTCCCTGGC ATTGCACACTCTATCTTTCTGA
353	Tabel 3A	NA	142F9	-1	TCAGAAAGATAGGAGTGTGCAATGGC AAGGAACTCAATTTAAAGCAAAT
354	Tabel 3A	NA	331A3	1	AAAAGTCACTACCAGGCTGGCAGGG AATGGGGCAATCTATTCTACTGAT
355	Tabel 3A	NA	331A3	-1	ATCAGTATGAATAGATTGCCCCATTG CCTGCCAGCCTGGTAGTGACTTTT
356	Tabel 3A	NA	138G5	1	ATATTGATTTGGATACGGTGAATAAG CTGGACAAGATGTTGAGGAGAGGG
357	Tabel 3A	NA	138G5	-1	CCCTCTCCTCAACATCTTGTCCAGCT TATTACCGTATCCAAATCAATAT
358	Tabel 3A	NA	145C5	1	AATGTGCAAGGTGAAATGCTTTTGA TAAACGTAAGCCTATTTTCTGACG
359	Tabel 3A	NA	145C5	-1	CGTCAGAAATAGGCTTACGTTTATC CAAAAGCATTTACCTTGACATT
360	Tabel 3A	NA	184H1	1	TTCATCTCTAAGGCACACTTGCTACC CCTCTTTGCTGACCCAGATTGTG
361	Tabel 3A	NA	184H1	-1	CACAACTCTGGGTGAGCAAGAGGG GTAGCAAGTGTGCCTTAGAGATGAA
362	Tabel 3A	NA	45B9	1	TTCTGGCAAGCTCTGTCTCTCTGG CGACACTTCTCTGTCTCTCTGG
363	Tabel 3A	NA	45B9	-1	CCAAGAAGACAGAAGGAGTGTGGA ACACCATGACAAGAGCTTGCCAGAA
364	Tabel 3A	NA	112B5	1	GGTCAATGTAGCCAATTATTTGTTTCA ACAGTTGCAGAACAGATATTTCA
365	Tabel 3A	NA	112B5	-1	TGAAATATCTGTTCTGCAACTGTTGA AACAAATAATTGGCTACATTGACC
366	Tabel 3A	NA	117H9	1	TGAAAAGACAGCTAATTTGGTCCAAC AAACATGACTGGGTCTAGGGCACC
367	Tabel 3A	NA	117H9	-1	GGTGCCCTAGACCCAGTCATGTTTGT TGGACCAAAATTAGCTGTCTTTTCA
368	Tabel 3A	NA	515H10	1	TGGATCAATTGCCCAAAGTTGCACGCA CTGACTCCTTACCTGTGAGGAATG
369	Tabel 3A	NA	515H10	-1	CATTCTCAGAGGTAAGGAGTCAGTG CGTGCAACTTTGGGCAATGATCCA
370	Tabel 3A	NA	103C4	1	TAAAAACATTAAAGATTGACTCCACT TTGTGCCAAGCTCTCGGGGTAGG
371	Tabel 3A	NA	103C4	-1	CCTACCCGACAGGCTTGGCACAAG TGGAGTCAATCTTTAATGTTTAA
372	Tabel 3A	NA	116E10	1	TGAATTTGGAGTCCCTGGCACAATAA TCTACCTTCAAATCAGAGGTCCTT



Table 8

373	Tabel 3A	NA		118E10	-1	AAGGACCTCTGATTGTAAGGTAGATT
374	Tabel 3A	NA		196D7	1	TATGTGCCAGGGACTCCAAATTC
375	Tabel 3A	NA		198D7	1	TGGGTGAGAGACGAAAAGGGCTATTA
376	Tabel 3A	NA		524A9	-1	TTAGGTCAAACATTACAGAAATCA
377	Tabel 3A	NA		524A9	1	TGATTTCGTGAATGTTTGACCTAATAA
378	Tabel 3A	NA		485A6	1	TAGCCCTTTTCGTCTCTGACCCA
379	Tabel 3A	NA		485A6	1	CTGATTTAACAGGTGGTTCTGCGGGC
380	Tabel 3A	NA		485D5	-1	GTCCAGGTCAACATCTTTTGTCC
381	Tabel 3A	NA		485D5	-1	GGACAAAAGATGTTTGACCTGGACG
382	Tabel 3A	NA		479G6	1	CCCGCAGAACCTGTTAAATCAG
383	Tabel 3A	NA		479G6	1	GTCACCTTAGCGAGCGGGAACAAT
384	Tabel 3A	NA		482A5	1	GGCGAAAGGGAAAACCTGGAAAG
385	db mining	Hs.195219	W63776	1371377	-1	CTTTCCAGTTTTCCCTTCGCGCCAT
386	Table 3A	Hs.183454	AK027789	14042727	1	TGTTTTCCCGCTCGCTAAAGTGAC
					1	TAATTAATAGAGCTCACTTAAGATTGC
					-1	CCATCAAGAAACAGGAGGGTGGT
					-1	ACCACCTCCTGTTTCTTGATGGGCA
					1	ATCTTAAGTGAGCTCTATTAAATTA
					1	AGTCCTGCTGAATCATTGGTTTATAG
					-1	AAGACTATCTGGAGGGCCTGATAG
					-1	CTATCAGGCCCTCCAGATAGTCTTCT
					1	ATAAACCAATGATTGAGCAGGACT
					1	ATGTGATTCCATGATAATCAAATAGT
					1	GAATACATTATAAGTCAGCAACT
					1	ATATATGGGGGCTGGGCTCGGGAC
					1	TCTCGCTCTAATAAAGGACTGTAGG
					1	TTTTGACCCAGATGATGTTCTCTTTA
						CAGAACATAAAATGGCTGAACAT
387	db mining	Hs.69171	NM_006256	5453973	1	TGAGCACTGGAAACAGTTTCATGGAG
388	Table 3A	Hs.131828	R67468	840106	1	TTTAAGTTGAGTGAACATCGGCCA
389	Table 3A	Hs.181297	AA010282	1471308	1	ATGCATTAGTTTTTGGCACCAGTAGT
					1	TAAAGGGTGGGATTGCCAGTTTTT
					1	GGTTGTGCTCTGGTTTCCCTTTTC
						CCCGTGGTTTTAATTTTAAGAAC
390	Table 3A	Hs.235883	AA020845	1484816	1	GGAGGACACCCCTGTGTGTGCTGCG
						TGCCCTTCGTGCTGTCTACTGTATC
391	Table 3A	Hs.330145	AA044450	1522307	1	GCATCAGAGAGAAATATGGAAGGACAT
392	Table 3A	Hs.189468	AA069335	1578904	1	CGACCCTAACCTTCATCCAGTGAGG
					1	ACCATAGCAGACAGGGTCAGATGGA
						ATATTAGCGGTTTAGGTGAAGAACC
393	Table 3A	Hs.205675	AA111921	1664016	1	AGACAGAAAGACAAGGCCAAATGGGT
394	Table 3A	Hs.13659	AA115345	1670525	1	GTCTCTGGAATGATAGACTTAGAAA
					1	ATCCACATTCTTACCTTTGGTAGTCA
						GGTTTGGCTACTTTGCAGCTCGCC
395	Table 3A	Hs.11861	AA122297	1678553	1	ATAGCAGTGGATTACCAACACCTTGA
						CTTCTTGACAGTGCTAACATCTT
396	Table 3A	Hs.183454	AA149078	1719368	1	TAGTAAAGTGAAGAGAAAGGGTTT
						TTCTGCCACAGGATATAACTTTT
397	Table 3A	Hs.124601	AA203497	1799265	1	AAAGCGGTGCTTTCCCAACAGGTGT
398	Table 3A	Hs.73788	AA210786	1809440	1	CCAACCTTGGCGGTACTCACACTTA
					1	CTAGGCCCGCCACCCCAACCTTCT
						GGTGGGGAGAAATAACCGTTTAGA
399	Table 3A	NA	AA214691	1814479	1	TGCACTAAACAGTTGCCCAAAAGAC
400	Table 3A	NA	AA243144	1874139	1	ATATCTTGTTTTAAGGCCAGACC
401	Table 3A	Hs.135187	AA250809	1885832	1	TGGATGAAGCTGAAAAGACACTAAG
					1	ACCTTCTGTGCTCAGATCCCTGA
402	Table 3A	Hs.100651	AA251184	1886149	1	GTGTGGCCTAAGGAACACCTCTTGTG
					1	GGGAGTAAGAGCCAGCCCTTCTCC
					1	AAGGATGAAGGACTGATGGAGGCA
						GAGGAACCTGGAGGCAGCAGGCACAA
403	Table 3A	NA	AA252909	1885512	1	AGATGTCTGTATAAACAACCTTTGGG
404	Table 3A	Hs.194480	AA258979	1894268	1	TAGCAGGTGGTCAGTTAGGCAGGA
					1	TGCTTGTCTTTTAAACACCTTACAGA
					1	TATCATTGACCTTGCCAAAGG
405	Table 3A	Hs.5241	AA280051	1921589	1	GGGTAGGCAGCTTGACCCAGTTCT
					1	CTTTATCTCAACTTATTTTCTCGG
406	Table 3A	NA	AA282774	1925825	1	CCGGTGTCCCTGAGTGAGGGCAAAG
						TGTAATAACACTTGTCTCTCTT

Table 8

407	Table 3A	Hs.89072	AA283061	1926050	hypothetical protein MGC4618 (MGC4618), mRNA /cds=(107,1621)	1	ACGGCGTTCTGAAATTTAGCACACTG
408	Table 3A	Hs.291448	AA290921	1938772	EST388168 cDNA	1	GGAAGTCCACATGGTTCATCTGAA
							AATGAGATCACAGATGGTGACACTGA
							GCGGAAGGATGCAGTACCTCGGAG
409	Table 3A	Hs.211866	AA290993	1938989	wh99f02.x1 cDNA, 3' end /clone=IMAGE:2388891 /clone_end=3'	1	TCCTTGCAAAAGATTGGCTAGTGGT
							GTTCCAGAGAAATACCAAAACGTGT
410	Table 3A	Hs.323950	AA307854	1960203	zinc finger protein 6 (CMPX1) (ZNF6), mRNA /cds=(1265,3361)	1	GGCAAAGGGGAAGGATGATGCCATG
							TAGATCCTGTTTGACATTTTATG
411	Table 3A	Hs.100293	AA312681	1965030	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase) (OGT), mRNA /cds=(2039,4801)	1	ACTGTTAACCAATTTTGACCAAGGA
							GTCTCAAAGTAATTCTGAACCAAG
412	Table 3A	Hs.217493	AA314369	1966698	annexin A2 (ANXA2), mRNA /cds=(49,1058)	1	ACTAGCAGATTGAATCGATATTCATTA
							AGTTAGGAATGTTGGTGGTCT
413	Table 3A	Hs.85844	AA322158	1974484	neurotrophic tyrosine kinase, receptor, type 1 (NTRK1), mRNA /cds=(0,2390)	1	AATTGTGCTTTGTATCAGTCAGTGCT
							GGAGAAATCTTGAATAGCTTATGT
414	Table 3A	Hs.260238	AA332553	1984808	hypothetical protein FLJ10842 (FLJ10842), mRNA /cds=(39,1307)	1	AGGAAACCAAGCCCTCACAGGAAAG
							AAAGCCTGAATCAAGAAAAACAAAGT
415	Table 3A	Hs.323463	AA360634	2012954	mRNA for KIAA1693 protein, partial cds /cds=(0,2707)	1	ACTGAGCAGGACAACCTGACCTGTCTC
							CTTCACATAGTCCATATCACACACA
416	Table 3A	NA	AA377352	2029881	EST89924 Small intestine II cDNA 5' end	1	GCGTAAACGCCAGGGCCATCTTCTT
							ACTTAAGCCACATCCTGAACCCAGG
417	Table 3A	Hs.27973	AA397592	2050712	KIAA0874 protein (KIAA0874), mRNA /cds=(0,6188)	1	AGCGACAAGAAAGGAATCTGGTGAATT
							TTAGTCATCCAGCTTTTATGCT
418	Table 3A	Hs.343557	AA401648	2056830	601500320F1 cDNA, 5' end /clone=IMAGE:3902237 /clone_end=5'	1	GCTGGGGCTGAGAGAGGGTCTGGGT
							TATCTCTCTGATCTTCAAAACAA
419	Table 3A	Hs.186874	AA402069	2056860	qf58f06.x1 cDNA, 3' end /clone=IMAGE:1754051 /clone_end=3'	1	TCATGGACACAAACTTTGGAGTATAA
							GCGACATCCCTTAAGCAACAGSCT
420	Table 3A	Hs.301985	AA412436	2071008	602435787F1 cDNA, 5' end /clone=IMAGE:4553684 /clone_end=5'	1	ATTCAAGTCAGGGCCTCTCTGCCCTT
							TTCCCTCCAGAAACAAACCAAGA
421	Table 3A	Hs.9691	AA418765	2080566	cDNA: FLJ23249 fls, clone COL04196 /cds=UNKNOWN	1	TGTTTGTACCACTAGCATTCTTATGTC
							TGTAATCTGACCTGTAGTTAGCA
422	Table 3A	Hs.24143	AA426508	2106769	Wiskott-Aldrich syndrome protein interacting protein (WASPIP), mRNA /cds=(108,1619)	1	AATATAGCTCCACTAAAGGACCATAG
							GGAAGAGCCAGCCTTGCTTTTCT
423	Table 3A	Hs.303214	AA427853	2111519	7c45b01.x1 cDNA, 3' end /clone=IMAGE:3576912 /clone_end=3'	1	GACAGTCCATTAAGTTGATTCCAGT
							GGTGAAGGGTCAGACACGCCCTCC
424	Table 3A	Hs.89519	AA429783	2112974	KIAA1043 protein (KIAA1043), mRNA /cds=(577,1782)	1	CCTGGGTTGCCCTGTGAATGAAAGGG
							AGATCGAGCCATTGTACCACCTTA
425	Table 3A	Hs.112071	AA442585	2154463	zv57f09.r1 cDNA, 5' end /clone=IMAGE:757769 /clone_end=5'	1	GTTCACTGTTTAACAGCCAGCAAGCCA
							GAGCCTCGCTACTAGAAGTGGAATG
426	Table 3A	Hs.8832	AA454036	2167705	zx48b04.r1 cDNA, 5' end /clone=IMAGE:795439 /clone_end=5'	1	TTGTCAAGTGGATCTGCCCAAGATT
							TGCTTTGAGGAAAGGGGCTCCCT
427	Table 3A	Hs.286148	AA454987	2177763	stromal antigen 1 (STAG1), mRNA /cds=(400,4176)	1	CTTGATGGAACAGATGCTGACAG
							AAATTGAGTACTACCATGCCACACA
428	Table 3A	Hs.255452	AA455707	2178483	aa22d09.r1 cDNA, 5' end /clone=IMAGE:814001 /clone_end=5'	1	AAATCTAAGACACCCAAAGCCCTCTT
							TGTCCTTAAGTAGCCCTAGCCTGG
429	Table 3A	NA	AA457757	2180477	fetal retina 837202 cDNA clone IMAGE:838756 5'	1	AGCTGTTTAATTGAATTGGAATGCTT
							CCACTTGGAAACCAAGTTTGGAAA
430	Table 3A	Hs.82772	AA460876	2185996	collagen, type XI, alpha 1 (COL11A1), mRNA /cds=(161,5581)	1	TTTTCTACGTTATCTCATCTCCTTGT
							TTTCAGTGTGCTTCAATAATGCA
431	Table 3A	Hs.292451	AA461604	2185468	zx51d08.r1 cDNA, 5' end /clone=IMAGE:795759 /clone_end=5'	1	CTCCCATCTGCACACCTGGATCAAGG
							TAGCCTCTCTGCACAAGGGCAGGT
432	Table 3A	Hs.13809	AA476568	2204779	mRNA for KIAA1525 protein, partial cds /cds=(0,2922)	1	TGTTTTGCTTCTCAGAACTTTTATA
							TTGCATCTGCCATCCTTCATTGG
433	Table 3A	Hs.83733	AA479163	10433041	cDNA FLJ11724 fls, clone HEMBA1005331 /cds=UNKNOWN	1	ACAGCCAACTGGAAAGATATAAAAGT
							TGGGTCTGTCTCCTCTCCTTCAG
434	Table 3A	Hs.190154	AA490796	2219859	td07e03.x1 cDNA, 3' end /clone=IMAGE:2074972 /clone_end=3'	1	ACTCCTGCTTAGAGAGAAGCCACCA
							TGAAAGTCTCATCATCAGGGGA
435	Table 3A	Hs.119960	AA496483	2229804	mRNA: cDNA DKFZp727G051 (from clone DKFZp727G051); partial cds /cds=(0,1423)	1	TCCGTACTGTATGTGATATAGTGCCA
							TTTTCAGTAAGTCTGTACACACA
436	Table 3A	Hs.75470	AB000115	2564034	hypothetical protein, expressed in osteoblast (GS3686), mRNA /cds=(241,1482)	1	ACTTGCCATTACTTTTCTTCCCACTC
							TCTCCAACATCACATCACTTTTA
437	Table 3A	Hs.50002	AB000887	2189952	small inducible cytokine subfamily A (Cys-Cys), member 19 (SCYA19), mRNA /cds=(138,434)	1	GTGAGTGTGAGCGAGAGGGTGAGTG
							TGGTCAGAGTAAAGCTGCTCCACCC
438	Table 3A	Hs.76730	AB002299	2224542	mRNA for KIAA0301 gene, partial cds /cds=(0,8144)	1	TAATATGCTGGCTTTCAGCAGAAATG
							AAAAGGATGAGTGGTGTAGCCTT
439	Table 3A	Hs.7911	AB002321	2224586	mRNA for KIAA0323 gene, partial cds /cds=(0,2175)	1	TTCTTCCCTGGAGGAAGCTTTTGGT
							TGCAGGGCTAACTTAGAGGGCTGC

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440	Table 3A	Hs.7720	AB002323	2224590	mRNA for KIAA0325 gene, partial cds /cds=(0,6269)	1	TCTGACGGTTGGGAGTGGTGGAATT
441	Table 3A	Hs.278671	AB002334	2224612	KIAA0338 gene product (KIAA0336), mRNA /cds=(253,5004)	1	GGAAAGGATACCCAGGAGTATTTGG
442	Table 3A	Hs.23311	AB002385	2224674	mRNA for KIAA0367 gene, partial cds /cds=(0,2150)	1	TGATTACAAAAGGCGTATTCTTCAT
443	Table 3A	Hs.3852	AB002366	2224676	mRNA for KIAA0368 gene, partial cds /cds=(0,4327)	1	GGTTTCTGCAATGAGAGGAAGTGT
444	Table 3A	Hs.70500	AB002368	2224680	mRNA for KIAA0370 gene, partial cds /cds=(0,2406)	1	TCATGCATTGGATTGCTCAGAATAAA
445	Table 3A	Hs.63302	AB002369	2224682	myotubularin related protein 3 (MTMR3), mRNA /cds=(247,3843)	1	GTGTCTGTTAGACTTCGTTTTGGT
446	Table 3A	Hs.32559	AB002377	6634024	mRNA for KIAA0379 protein, partial cds /cds=(0,3180)	1	TGACGTTAACACCAGGAATCTCCATG
447	Table 3A	Hs.101359	AB002384	2224712	mRNA for KIAA0386 gene, complete cds /cds=(177,3383)	1	TTTATTATTTTTCGTGGAACCTCC
448	Table 3A	Hs.100955	AB007859	6634028	mRNA for KIAA0399 protein, partial cds /cds=(0,2961)	1	TTGCAAGAGCTCAGCTTTTGTGTTT
449	Table 3A	Hs.118047	AB007861	2662082	602971981F1 cDNA, 5' end /clone=IMAGE:5111324 /clone_end=5'	1	TCTCATCATTCATTGTGATACT
450	Table 3A	Hs.28578	AB007888	2887430	muscleblind (Drosophila)-like (MBNL), mRNA /cds=(1414,2526)	1	AGCTGTACATATAACCCCTTTCTCCTA
451	Table 3A	Hs.32168	AB007902	2662184	KIAA0442 mRNA, partial cds /cds=(0,3519)	1	AAGAGGAGTCAGTCAGTGCTCCT
452	Table 3A	Hs.158288	AB007915	6634034	mRNA for KIAA0448 protein, partial cds /cds=(3480,4586)	1	AGTTCCAGGAGATCTCTAAGTGTAGCT
453	Table 3A	Hs.214646	AB007918	6683704	mRNA for KIAA0447 protein, partial cds /cds=(233,1833)	1	GTAAATTTTGGGGTTAATTGGCT
454	Table 3A	Hs.28169	AB007928	3413879	mRNA for KIAA0459 protein, partial cds /cds=(0,461)	1	TGTTTGGTTGAGGGGTGCTTTTAGTT
455	Table 3A	Hs.7764	AB007938	3413899	KIAA0469 gene product (KIAA0469), mRNA /cds=(184,1803)	1	GTGTGGCATTGTATTTCATTGATC
456	Table 3A	Hs.92381	AB007958	3413930	mRNA, chromosome 1 specific transcript KIAA0487 /cds=UNKNOWN	1	TCAGCCTGAGTGAGTTCAGCCTGTAA
457	Table 3A	Hs.306193	AB011087	9558752	hypothetical protein (LQFBS-1), mRNA /cds=(0,743)	1	AAAGGATGTTAAGCTGTGGGTAA
458	Table 3A	Hs.69403	AB011098	3043575	serine palmitoyltransferase, long chain base subunit 2 (SPTLC2), mRNA /cds=(188,1876)	1	AGGTCGTCATCTATGAATGGAGT
459	Table 3A	Hs.173081	AB011102	3043583	mRNA for KIAA0530 protein, partial cds /cds=(0,4692)	1	GGCCTTATCTATGAATGGAGT
460	Table 3A	Hs.188891	AB011108	3043595	mRNA for KIAA0535 protein, partial cds /cds=(0,3087)	1	TAAGCATAAACCTGACACGTTAAAA
461	Table 3A	Hs.62209	AB011114	6635200	mRNA for KIAA0542 protein, partial cds /cds=(390,4028)	1	TCCCTGCCCTTTGGTGAGCCACT
462	Table 3A	Hs.13273	AB011164	3043707	mRNA for KIAA0592 protein, partial cds /cds=(0,4061)	1	AACCTGCACTTTAGCAGTGCACTTT
463	Table 3A	Hs.20141	AB011168	3043717	mRNA for KIAA0597 protein, partial cds /cds=(0,2615)	1	CTAATTGACTTACTGGGAACTGA
464	Table 3A	Hs.118087	AB011182	3043743	DNA sequence from clone RP11-251J8 on chromosome 13. Contains ESTs, STSs, GSSs and a CpG island. Contains two novel genes with two isoforms each and the KIAA0610 gene with two isoforms /cds=(61,2061)	1	AGGCCCTCAGGCCACCTCCAGGAACA
465	Table 3A	Hs.9075	AB011420	3834353	serine/threonine kinase 17a (apoptosis-inducing) (STK17A), mRNA /cds=(117,1361)	1	GAACACAGTTTTAAGTTTGATTTTT
466	Table 3A	Hs.120996	AB011421	3834355	serine/threonine kinase 17b (apoptosis-inducing) (STK17B), mRNA /cds=(261,1379)	1	TGAGTCTTAGCAATATGGGAGCAGGT
467	Table 3A	Hs.180383	AB013382	3869139	dual specificity phosphatase 6 (DUSP6), transcript variant 1, mRNA /cds=(351,1496)	1	TTTCACTGAATTCGAGGGTGCTCT
468	Table 3A	Hs.323712	AB014515	3327043	KIAA0615 gene product (KIAA0615), mRNA /cds=(237,2927)	1	GTGTGCTGGGCACACAGGAGGGCA
469	Table 3A	Hs.11238	AB014522	3327057	mRNA for KIAA0622 protein, partial cds /cds=(0,3869)	1	GGCTATGCGTTCGAGGCCAAGCTAG
470	Table 3A	Hs.12259	AB014530	3327073	mRNA for KIAA0630 protein, partial cds /cds=(0,1473)	1	TGGGAACACATAGAAGCTGATGGAGG
471	Table 3A	Hs.31921	AB014548	3327109	mRNA for KIAA0648 protein, partial cds /cds=(0,2857)	1	CTTTTCTAAGGCCAAGGATAATGT
472	Table 3A	Hs.8118	AB014550	3327113	mRNA for KIAA0650 protein, partial cds /cds=(0,2648)	1	ACTCAAGCTCACACCTGTACCTGATG
473	Table 3A	Hs.96731	AB014555	3327123	mRNA for KIAA0655 protein, partial cds /cds=(0,3253)	1	GGAAATGAACATAATGTGAAGAAAC
474	Table 3A	Hs.65450	AB014558	3327129	reticulon 4a mRNA, complete cds /cds=(141,3719)	1	CACCAAAATAGTATGTTGGCACTGT

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475	Table 3A	Hs.6727	AB014580	3327133	mRNA for KIAA0660 protein, complete cds /cds=(120,1568)	1	TGCAACCAAAATTGGCTTTACCATCTT
476	Table 3A	Hs.52526	AB014569	3327151	KIAA0669 gene product (KIAA0669), mRNA /cds=(1016,3358)	1	GGCTTTAGTAGGTATAGAAGACAA
477	Table 3A	Hs.5734	AB014579	3327171	meningioma expressed antigen 5 (hyaluronidase) (MGEA5), mRNA /cds=(395,3145)	1	TGTCAAAATAAAGAGAACGAACAGGT
478	Table 3A	Hs.153293	AB014601	3327215	mRNA for KIAA0701 protein, partial cds /cds=(0,1892)	1	AGTTTGGTGGAGCTGAGCTAGTGT
479	Table 3A	Hs.192705	AB015798	11067366	PRO0457 protein (PRO0457), mRNA /cds=(985,1431)	1	TCCTGTAGAAAACGAACCTGTAAAAA
480	Table 3A	Hs.247433	AB015856	3953530	activating transcription factor 6 (ATF6), mRNA /cds=(42,2054)	1	CCATGCAAGAGGCAAAATAAACT
481	Table 3A	Hs.288031	AB016247	3721881	sterol-C5-desaturase (fungal ERG3, delta-5-desaturase)-like (SC5DL), mRNA /cds=(48,947)	1	ACAGTAGCTTTGTAGTGGGTTTCTG
482	Table 3A	Hs.179729	AB016811	4514625	collagen, type X, alpha 1 (Schmid metaphyseal chondrodysplasia) (COL10A1), mRNA /cds=(0,2042)	1	TGCTGTGCTTTTAAATTCATGTA
483	Table 3A	Hs.10458	AB018249	4033626	gene for CC chemokine LEC, complete cds	1	GATTCTGTGTCATGAAGGAAAGCAAGA
484	Table 3A	Hs.19822	AB018298	3882230	SEC24 (S. cerevisiae) related gene family, member D (SEC24D), mRNA /cds=(200,3298)	1	CAGCTCACAGACCAGCGCATCTG
485	Table 3A	Hs.5378	AB018305	3882244	mRNA for KIAA0762 protein, partial cds /cds=(0,1874)	1	TTTTCTGTACCTTTCTAAACCTCTCTT
486	Table 3A	Hs.21264	AB018325	3882284	mRNA for KIAA0782 protein, partial cds /cds=(0,3540)	1	CCCTCTGTGATGGTTTTGTGTTT
487	Table 3A	Hs.8182	AB018339	3882312	mRNA for KIAA0796 protein, partial cds /cds=(0,3243)	1	AAATCTTATTCTCTCTTCCCTC
488	Table 3A	Hs.55947	AB018348	3882330	mRNA for KIAA0805 protein, partial cds /cds=(0,3985)	1	ACTTTTCCCTACTCTCTGCAA
489	Table 3A	Hs.181300	AB020335	6518494	Pancreas-specific TSA305 mRNA, complete cds /cds=(45,2429)	1	TGGAATCAGACATCTCCAGATGGTT
490	Table 3A	Hs.22960	AB020623	3985929	breast carcinoma amplified sequence 2 (BCAS2), mRNA /cds=(48,725)	1	TGGACCCTGTCCATGTGTAGGTCA
491	Table 3A	Hs.45719	AB020630	4240131	CAAX box protein TIMAP mRNA, complete cds /cds=(52,1755)	1	AATTTAGCACCTCAGGAATAACTTATT
492	Table 3A	Hs.123654	AB020631	4240136	mRNA for KIAA0824 protein, partial cds /cds=(0,4936)	1	GGTTTAGGTCAGTCTTGGCGGG
493	Table 3A	Hs.334700	AB020640	14133218	mRNA for KIAA0833 protein, partial cds /cds=(0,5017)	1	AACCATGTAACCTCCATTGAACATTTT
494	Table 3A	Hs.14945	AB020644	4240162	mRNA for KIAA0837 protein, partial cds /cds=(0,2237)	1	CAACTTAAGGTCTGCATAGCAGA
495	Table 3A	Hs.197298	AB020657	4240188	NS1-binding protein-like protein mRNA, complete cds /cds=(555,2483)	1	AAACCAGGTTAATGGCTAAGAATGGG
496	Table 3A	Hs.13264	AB020663	4240200	mRNA for KIAA0856 protein, partial cds /cds=(0,3212)	1	TAACATGACTCTTGTTGATGTTT
497	Table 3A	Hs.104315	AB020669	4240212	suppressor of clear, C. elegans, homolog of (SHOC2), mRNA /cds=(277,2025)	1	CTCTTGGCTGAGCTTCTACAGGGCTG
498	Table 3A	Hs.18166	AB020677	6635136	mRNA for KIAA0870 protein, partial cds /cds=(0,3061)	1	AGAGCTGCGCTTTGGGGACTTCAG
499	Table 3A	Hs.27973	AB020681	4240236	KIAA0874 protein (KIAA0874), mRNA /cds=(0,6188)	1	TTTCCTTTGGGGCATGATGTTTTAAC
500	Table 3A	Hs.75415	AB021288	4038732	cDNA: FLJ22810 fis, clone KIAA2933, highly similar to AB021288 mRNA for beta 2-microglobulin /cds=UNKNOWN	1	CTTTGCTTTAGAAGCACAGCTGT
501	Table 3A	Hs.215857	AB022663	5019817	HFB30 mRNA, complete cds /cds=(236,1660)	1	ATAGAATGAGCTTGGTTAAGCACCTC
502	Table 3A	Hs.104305	AB023143	4589483	death effector filament-forming Ced-4-like apoptosis protein (DEFCAP), transcript variant B, mRNA /cds=(522,4811)	1	AGGCCAAATCTTTTTATCTGGGT
503	Table 3A	Hs.154296	AB023149	4589507	mRNA for KIAA0932 protein, partial cds /cds=(0,2782)	1	TTGAGTAGAACTCTGATTTTCCCTAG
504	Table 3A	Hs.4014	AB023163	4589535	mRNA for KIAA0946 protein, partial cds /cds=(0,2005)	1	AGGCCAAATCTTTTTATCTGGGT
505	Table 3A	Hs.75478	AB023173	4589555	mRNA for KIAA0956 protein, partial cds /cds=(0,2020)	1	TTCTTGGCCTTCCAGCTGCCAAGGC
506	Table 3A	Hs.184523	AB023182	4589573	mRNA for KIAA0965 protein, partial cds /cds=(0,1392)	1	CTGTGACAGAATTCGCTGTTAAGAG
507	Table 3A	Hs.103329	AB023187	14133226	KIAA0970 protein (KIAA0970), mRNA /cds=(334,2667)	1	AATGATGCAAAGTTTTATTCTTGAAC
508	Table 3A	Hs.158135	AB023198	4589605	mRNA for KIAA0981 protein, partial cds /cds=(0,1737)	1	TGGACACTGATGCCATCAAAACAA
509	Table 3A	Hs.75361	AB023200	4589609	mRNA for KIAA0983 protein, complete cds /cds=(55,2106)	1	CTGTGACAGAATTCGCTGTTAAGAG
							ATATCTCATCCAACTGAGCAGTT
							TTCCCATTTGCTCTCTACTCAACTAAA
							ATTCTAGTTGGCTTTAAGCCCA
							GCATGTCCTAATGCTTGCTGCTGATT
							TAAACACATTAAAGGTACTTTGCA
							ACAATGGCATAAAAGTAACCTTCTCT
							GAAGATGTGATGTTCAAGGCTGTGA
							AATGGAAGGCAGGTGAAGATATAAAA
							CCCTAGAATGCTTAAATGTGCTGT
							TTAATGCCAGTCTCATGTAACCTCA
							GGTATCTTCAGCTTGTGGAGAATA
							TGGAGTATATGCTGAAAAGGTTTGG
							GATTACAGAAAGAAAAGGATGGTT
							AAAGTAAGGCATGGTTGTGGTTAATC
							TGGTTATTTTTGTCCACAAGTT
							GGTGTGTGTGTCCAGAGTGAGCAAG
							GATTATGTTTTTGGATTGTCAAAGA
							AACCATTTGCCTCTGGCTGTGTACACA
							GGGTGAGCCCCAAAATGGGGTTTC
							GAAAGTGGAGAGGACCTAACATATGT
							CTCTACCTAGAAAGGATGGTTTCA
							ACCAACTATAAACCAGTCTTAAAGT
							TGTGTATGATGTTGAACCTTTGGG
							GGACCTGAGACACTGTGGCTGTCTAA
							TGTAATCCTTTAAAAATCTCTGTC
							TTTGGTGTTCAGTTACTGAGTTTCAAA
							AATGTTTTGGTGGGCTGAGGACA
							CCTGTTTAAAGAAAGTGAATGTTATG
							GTCTCCCCTCTTCCAATGAGCTTA
							ACGGACCAGGCCATTCTATTCTCTC
							AAGTGTTAATATACTGACTTATGC
							ACAGTTTTGTCAAAAGTGTATCTTGA
							CCCCACCATCAGTACTCCATTCT

Table 8

510	Table 3A	Hs.343557	AB023216	14133228	601500320F1 cDNA, 5' end /clone=IMAGE:3902237 /clone_end=5'	1	TTTGGTTCATCCGTGTGCTGTTCTTTT GGGTTCTGAGAGGGTTTTGCCAT
511	Table 3A	Hs.23860	AB023227	4589669	mRNA for KIAA1010 protein, partial cds /cds=(0,3949)	1	GGCAGTAATGCAAGAGTCCTTTTGTG AAGAGTGTCTTCTATGTAGAGATGT
512	Table 3A	Hs.90093	AB023420	4579908	mRNA for heat shock protein apg-2, complete cds /cds=(278,2800)	1	AAATGCAGAGCAGAAATGGACCATGT GATGGACAAGGAGACAACCCAGGCC
513	Table 3A	Hs.6790	AB026908	5931603	microvascular endothelial differentiation gene 1 (MDG1); mRNA /cds=(202,873)	1	AGTGTTCCTGCTGCCAGTCTTTCCCT CTTAGCGGTGGTTGAGAAAAAGC
514	Table 3A	Hs.21542	AB028958	5689406	KIAA1035 protein (KIAA1035), mRNA /cds=(88,3648)	1	CAGTCTCTGCCACTTGTGCTAGTTTT TGTTGGTGTGTAGAAACATGGGC
515	Table 3A	Hs.9846	AB028963	5689416	mRNA for KIAA1040 protein, partial cds /cds=(0,1636)	1	TTCCACTTAGGTTTGGCATTTTGGCA GATAAGCTAATCTTGTATAAAGCA
516	Table 3A	Hs.89519	AB028969	5689428	KIAA1046 protein (KIAA1046), mRNA /cds=(577,1782)	1	GTAATGCCCTACATGGTGTGATGCT GCATTATATATAAACTGTGTGCA
517	Table 3A	Hs.126084	AB028978	5689446	mRNA for KIAA1055 protein, partial cds /cds=(0,2607)	1	AGCTCCTGTGCTGACCTTCAAGTTAC GTTTTGGAAGTGAATACTAAAGG
518	Table 3A	Hs.7243	AB028980	5689450	mRNA for KIAA1057 protein, partial cds /cds=(0,2934)	1	ACACTAGGGAAGAACCTTAATCTAA ATTTGGTTCATGTGTGGCAAAAGT
519	Table 3A	Hs.8021	AB028981	5689452	mRNA for KIAA1058 protein, partial cds /cds=(0,4604)	1	TAACCTGGAATCACTGCCCTGCTGTA TTAAACATCTGTACCACATCTGT
520	Table 3A	Hs.76118	AB028986	5689462	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thioesterase) (UCHL1), mRNA /cds=(31,869)	1	CCCCAGTGTCTTTGTAGTCTCTCTTA TGTCATAATAAAGCTACATTTCT
521	Table 3A	Hs.325530	AB028990	5689470	mRNA for KIAA1067 protein, partial cds /cds=(0,2072)	1	GACAGACTTGGACACAAAACCGATCC ATAGAAGGGCTTCCCAACCTTGT
522	Table 3A	Hs.154525	AB028999	5689488	mRNA for KIAA1076 protein, partial cds /cds=(0,2415)	1	CCATATGTAACCTTGTTTGAAGAGAA GTGTTTCCGTTGTGTCTTGTATG
523	Table 3A	Hs.155546	AB029003	5689496	mRNA for KIAA1080 protein, partial cds /cds=(0,1554)	1	GTATCATCTGCCAAGACCAGGGCCT GCTTCACACAGCCCAATAAAGT
524	Table 3A	Hs.26334	AB029006	5689502	mRNA for KIAA1083 protein, complete cds /cds=(221,1975)	1	AATGAACCATTTACAGTTCGGTTTGG GACTCTGAGTCAAAGGATTTTCT
525	Table 3A	Hs.54886	AB029015	5689520	mRNA for KIAA1092 protein, partial cds /cds=(0,3464)	1	GCCGAGTCAGCATGGGTAGAGAT GATGTAAAAGCAGCCAATCTGGAAA
526	Table 3A	Hs.117333	AB029016	14133234	mRNA for KIAA1093 protein, partial cds /cds=(179,5362)	1	ACCTTCTGGGAGGAGGGTCCGATTTC AATCTGAACCTTAGAATTTCAACTC
527	Table 3A	Hs.279039	AB029027	5689544	KIAA1104 protein (KIAA1104), mRNA /cds=(494,2281)	1	GCACCATGTAGAATTTTCACTTTGTA CTGGCAGGCTCGTTTACCTCAAT
528	Table 3A	Hs.278586	AB029031	5689552	mRNA for KIAA1108 protein, partial cds /cds=(0,2291)	1	TCTCCAGTCTCTGATTACTGTACACAG TAGCTTTAGATGGCGTGGACGTGA
529	Table 3A	Hs.7910	AB029551	6714542	YEA1 mRNA for YY1 and E4TF1 associated factor 1, complete cds /cds=(198,878)	1	TTCTTGTTACTGGCATGTGCACGACT ATGTTATTAGAAGCCACTTTATCT
530	Table 3A	Hs.14805	AB031050	7684248	solute carrier family 21 (organic anion transporter), member 11 (SLC21A11), mRNA /cds=(193,2325)	1	GCCAGCTTGGAGGATGGACATTTCTG GATACACATACACATAGAAAACAG
531	db mining	Hs.91600	AB031479	6539431	SEEK1 protein (SEEK1), mRNA /cds=(274,732)	1	TCAGCTCCTTGATCTAAGCCTCCAG AGAGACCCCTAGAATGTTTCCCTC
532	db mining	Hs.146824	AB031480	6539433	SPR1 protein (SPR1), mRNA /cds=(315,725)	1	CCGGCGGAGGAATATCAGTAGAC AGCTGCTGCTTCCATGAAACCGGAAA
533	Table 3A	Hs.99872	AB032251	6683491	BPTF mRNA for bromodomain PHD finger transcription factor, complete cds /cds=(471,8816)	1	TGTTGCCTTGAATATAACAGTACAAT TGTCATTAATCTGCACCAGGCT
534	Table 3A	Hs.8858	AB032252	6683493	bromodomain adjacent to zinc finger domain, 1A (BAZ1A), mRNA /cds=(115,5139)	1	AAAAGTAACACCCTCCCTTTTCTCTG ACAGTTCTTTCAGCTTTACAGAAC
535	Table 3A	Hs.286430	AB032948	6329727	601655926R1 cDNA, 3' end /clone=IMAGE:3855679 /clone_end=3'	1	AATGAAATGTAGTTGGGTTCTTCTCTG TAATGCGCTATTATGCTTTGGGCT
536	Table 3A	Hs.44087	AB032952	6329754	mRNA for KIAA1126 protein, partial cds /cds=(0,1857)	1	AACCTCCTTGTGTCTGTTTCTCTGTTCT CTCTGTGGCTGACTCAATAAACT
537	Table 3A	Hs.153489	AB032972	6330026	mRNA for KIAA1146 protein, partial cds /cds=(0,815)	1	GTGGGAGGGTGAGATGTGAAGATGT GGGATGAACCTGGAATGAACGAATT
538	Table 3A	Hs.12461	AB032973	6330032	mRNA for KIAA1147 protein, partial cds /cds=(0,569)	1	GGCCTAAAGAAAGCTGGGGTTAATCC TGAAGCTAAAAGTAAATGTTTCTT
539	Table 3A	Hs.343169	AB032976	6330050	EST374106 cDNA	1	TCCATCCTTTCCATCAAGACCTTCA TTAGCTTATGATATTTGCTGCCGA
540	Table 3A	Hs.6298	AB032977	6382017	mRNA for KIAA1151 protein, partial cds /cds=(0,689)	1	GGAGGTCTCTCCAGATTGCTCTTCT GCCGAATTATTGTATCTATTCCG
541	Table 3A	Hs.290398	BF341403	11297894	602013369F1 cDNA, 5' end /clone=IMAGE:4149209 /clone_end=5'	1	GCACACCTCGTCAGAGGACCATAAAC CGTGTGGGGACAATAACCGAGGGG
542	Table 3A	Hs.7041	AB033034	6382021	mRNA for KIAA1208 protein, partial cds /cds=(24,2015)	1	ACAAATGGATTGTGAAGAGCAGATTC CATGAGTAACCTGACAGGTATT
543	Table 3A	Hs.29679	AB033042	6330568	cofactor required for Sp1 transcriptional activation, subunit 3 (130kD) (CRSP3), mRNA /cds=(119,4225)	1	TGAGAGACATTGTTAATTTTGGGGGA ATTGGCATTGCGAAAGACTTGAAA
544	Table 3A	Hs.7252	AB033050	6330623	mRNA for KIAA1224 protein, partial cds /cds=(0,1908)	1	TGCTAGACATTTCTATACTCTGTTGTA ACACTGAGGTATCTCAATTGCC

Table 8

545	Table 3A	Hs.267690	AB033054	6330689	mRNA for KIAA1228 protein, partial cds /cds=(0,2176)	1	GTGGGGGATGGGGGTAAAAAGTAG
546	Table 3A	Hs.9873	AB033076	14133246	mRNA for KIAA1250 protein, partial cds /cds=(139,5472)	1	AGAACCTCCTTCTGTTCACCTAAT
547	Table 3A	Hs.146668	AB033079	6382025	mRNA for KIAA1253 protein, partial cds /cds=(0,1418)	1	CAGGTGAGTAGTTGCCGCGTAATATC
548	Table 3A	Hs.301721	AB033081	6330899	mRNA for KIAA1255 protein, partial cds /cds=(0,2866)	1	ATTGGAGTACATCTTTATACTGT
549	Table 3A	Hs.40193	AB033085	6330932	mRNA for KIAA1259 protein	1	CCCCAACCTTATCTGTGTGTAGACA
550	Table 3A	Hs.43141	AB033093	6331205	mRNA for KIAA1267 protein, partial cds /cds=(94,3411)	1	TTGTATTCCACAATTTTGAATGGC
551	Table 3A	Hs.42179	AB033112	6331388	mRNA for KIAA1286 protein, partial cds /cds=(197,3841)	1	CGAATGGCTTAACTAATTTGCTATG
552	Table 3A	Hs.63128	AB033118	6331442	mRNA for KIAA1292 protein, partial cds /cds=(0,1788)	1	ATCCTCTAACACCGAAATTTCCCA
553	Table 3A	Hs.278670	AB034205	6899845	acid-inducible phosphoprotein (OA48-18), mRNA /cds=(275,445)	1	AGAGGGAATCAGAAAAATGCCAAGC
554	Table 3A	Hs.76507	AB034747	12862475	LPS-induced TNF-alpha factor (PIG7), mRNA /cds=(233,919)	1	CTTTTCTCTTGAATGTGCTATTTT
555	db mining	Hs.184	AB036432	6691625	advanced glycosylation end product-specific receptor (AGER), mRNA /cds=(0,1214)	1	CACCTTCTCTGTTAACCTTGTGCCT
556	Table 3A	Hs.194369	AB036737	8096339	mRNA for RERE, complete cds /cds=(636,5338)	1	GTCTCCTGTATGATCAACCA
557	Table 3A	Hs.125037	AB037752	7243042	hypothetical protein FLJ20548 (FLJ20548), mRNA /cds=(167,1432)	1	TGTGTCTCTGTGCGCTGCTGTGAA
558	Table 3A	Hs.22941	AB037784	7243106	mRNA for KIAA1363 protein, partial cds /cds=(0,1293)	1	GCACATGATGCTCTATTATTGTA
559	Table 3A	Hs.258730	AB037790	7243118	mRNA for KIAA1369 protein, partial cds /cds=(0,1983)	1	TGAGAGTAAGCACATGACGCGCTG
560	Table 3A	Hs.29716	AB037791	7243120	mRNA for KIAA1370 protein, partial cds /cds=(49,3372)	1	CTTGCGTTGTGTCTGTTTATGTT
561	Table 3A	Hs.9663	AB037796	7243130	mRNA for KIAA1375 protein, partial cds /cds=(0,1640)	1	TCGTGTGAATCAGACTAAGTGGGATT
562	Table 3A	Hs.24684	AB037797	7243132	mRNA for KIAA1376 protein, partial cds /cds=(143,1456)	1	TCATTTTACAACCTCTGCTACT
563	Table 3A	Hs.6685	AB037801	7243140	mRNA for KIAA1380 protein, partial cds /cds=(0,3798)	1	TGCAACGAATATGGATACCACATAGT
564	Table 3A	Hs.334878	NM_032837	14249549	hypothetical protein FLJ14775 (FLJ14775), mRNA /cds=(171,533)	1	ACTTTGGTGTACCTGCTTTTGAA
565	Table 3A	Hs.301434	AB037808	7243154	mRNA for KIAA1387 protein, partial cds /cds=(0,2852)	1	AGAAGTGAATCAGTCGGAGGAACT
566	Table 3A	Hs.301434	AB037808	7243154	mRNA for KIAA1387 protein, partial cds /cds=(0,2852)	1	GAGGCAGGCGAGAGTAGTACTGGAG
567	Table 3A	Hs.15370	AB037828	7243194	mRNA for KIAA1407 protein, partial cds /cds=(0,2235)	1	TTGCCATGAGATAACACAGTGTAAAC
568	Table 3A	Hs.274396	AB037844	7243226	mRNA for KIAA1423 protein, partial cds /cds=(0,1851)	1	AGTAGACACCCAGAAATCGTGACT
569	Table 3A	Hs.149918	AB037901	10567163	GASC-1 mRNA, complete cds /cds=(150,3320)	1	GCTGTTAGGCTAAGAGGGTGCAGGG
570	Table 3A	Hs.284205	AB040120	12657580	up-regulated by BCG-CWS (LOC64116), mRNA /cds=(477,1859)	1	CTAGACACGAAGCTTAACTATCA
571	Table 3A	Hs.6682	AB040875	13516845	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11 (SLC7A11), mRNA /cds=(235,1740)	1	CCAGTGTGGAGGTAGCAAAGCATCTA
572	Table 3A	Hs.109694	AB040884	7959160	mRNA for KIAA1451 protein, partial cds /cds=(0,1467)	1	TCTATTCTGAATCATGTTTGGAAA
573	Table 3A	Hs.210958	AB040919	7959232	mRNA for KIAA1486 protein, partial cds /cds=(11,2044)	1	TTTGTACTGTTGAAACCACTTCATTG
574	Table 3A	Hs.20237	AB040922	7959238	mRNA for KIAA1489 protein, partial cds /cds=(1619,3154)	1	GACATGTTGCCAATGCAAAACCC
575	Table 3A	Hs.35089	AB040929	7959252	mRNA for KIAA1496 protein, partial cds /cds=(0,2763)	1	AGGGGGAACATTGTAAAGAAACAAAA
576	Table 3A	Hs.201500	AB040942	7959278	mRNA for KIAA1509 protein, partial cds /cds=(0,3982)	1	AGGTCCAGATGAATGTATGCTAGA
577	Table 3A	Hs.93836	AB040959	7959318	mRNA for KIAA1526 protein, partial cds /cds=(0,2892)	1	GGTGCTGAATATGTCCTGTAGGGCTC
578	Table 3A	Hs.89135	AB040961	7959322	mRNA for KIAA1528 protein, partial cds /cds=(4,2226)	1	TGTTTTAAGAAAACATATGTGGG
579	Table 3A	Hs.85752	AB040974	7959348	mRNA for KIAA1541 protein, partial cds /cds=(908,2341)	1	ACATTGGCTGCTTTTGTAAAGTGC
580	Table 3A	Hs.18259	AB044661	11094140	XPA binding protein 1; putative ATP(GTP)-binding protein (NTPBP), mRNA /cds=(24,1148)	1	AAGTGTACATATGGCTTTGTACA
581	Table 3A	Hs.142838	AB044971	13699901	nucleolar protein interacting with the FHA domain of pK1-67 (NIFK), mRNA /cds=(54,935)	1	AACTGTGCTGATGGGAACTGAG
582	Table 3A	Hs.140720	AB045118	13365650	FRAT2 mRNA, complete cds /cds=(129,830)	1	TTGTGTTTACCATTTTGTGACA
							TCCTTAAGGTGCACAGTAAATGTACA
							GATAGTTATAGGCCACTGTTTTGT
							AGCTCATATGAACACTGCTCTGAAC
							CCTCTGACTTAGCATTCAACTTAA
							CATGACAAACATTACTAGCATGTTCA
							ACTGCACCATGTTCTGGCCTGTA
							ACCTCTTCTCACCATTTCACATTTT
							GCAGAACTTGTTCACATTTCCA
							GGGTTGTGTATTAAATAGCCATTAT
							TCTGGAACCAAGGACAGGACTGT
							GCCTTGACAGGTGACCAGCAGTGTCA
							TTGTATTATATACAGAGCTTATG
							CTGGACGGGCGTGGGTTCTGGGTCA
							GCTTCTTTTACCTCAATTTTGTG
							AAAGTCTGAGGTTGGGAACAGTTATT
							TAAGCATTAGTCAACCTGTGCTCT
							TGGGCAAGACATGATTAATGAATCAG
							AATCCTGTTTCAATGGTCTGG
							CCTGTGTAAGAAAGAAATACAAGAG
							ACTCAACACCTACACATTCACGG
							TGGCTTGTTCATCCTCCAGATGTAGC
							TATTGATGTACACTTCGCAACGGA

Table 8

583	Table 3A	Hs.136414	AB045278	13568433	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 (B3GNT5), mRNA /cds=(129,1265)	1	AACATCAGCTTGGATGGTCACTTGA ATAGAAGATGGTTATACACAGTGT
584	Table 3A	Hs.127270	AB046765	10047154	mRNA for KIAA1545 protein, partial cds /cds=(0,2445)	1	CCACGGTGGACCCCTGTTTGTTTTAA TATTCTGTTCCCATGTCAATCAGT
585	Table 3A	Hs.65641	AB046766	10047156	hypothetical protein FLJ20073 (FLJ20073), mRNA /cds=(16,1908)	1	TTGTGTAGGAACTTTTGCAGTTTGA CACTAAGATAACTTCTGTGTGCAT
586	Table 3A	Hs.323822	AB046771	10047166	mRNA for KIAA1551 protein, partial cds /cds=(0,3750)	1	ACTCAAATCAGTTAGCTTCAACAAA AACGAAAGTTAGACCAAGGGAACG
587	Table 3A	Hs.323822	AB046771	10047166	mRNA for KIAA1551 protein, partial cds /cds=(0,3750)	1	ACTCAAATCAGTTAGCTTCAACAAA AACGAAAGTTAGACCAAGGGAACG
588	Table 3A	Hs.17767	AB046774	10047172	mRNA for KIAA1554 protein, partial cds /cds=(0,3963)	1	TTGTGTCTGTGCTTCAAGCCTTAA CTGTCAAATCTTGCAATTATCTTGT
589	Table 3A	Hs.44054	AB046785	10047194	ninein (GSK3B interacting protein) (NIN), mRNA /cds=(202,6345)	1	ACATTATCATGGCATGACTTAAGGGA ACATTGGTTTGTGAAGGAAAAACA
590	Table 3A	Hs.168640	AB046801	10047236	mRNA for KIAA1581 protein, partial cds /cds=(0,1639)	1	TGTGTGACTTTTCACTTCTGGGGTT GGAGCTTAAAGATCCAACTGAGA
591	Table 3A	Hs.129750	AB046805	10047244	mRNA for KIAA1585 protein, partial cds /cds=(27,1814)	1	TGCTGGTATTCTCACTGCCACATTTT GGAAACCTGTATTACACCTTAA
592	Table 3A	Hs.18587	AB046808	10047250	Homo sapiens, clone MGC:15071 IMAGE:4110510, mRNA, complete cds /cds=(977,2212)	1	TTGAGTGTCTGCAGCAGCCCTGGACT TCCAGACTTCTATCACATGAGAAA
593	Table 3A	Hs.11123	AB046813	10047260	mRNA for KIAA1593 protein, partial cds /cds=(477,3338)	1	TGGTGCTGATGCTTAGTTGTCTCATG CCATTAATTTGTAAGTGAGTTG
594	Table 3A	Hs.343582	AB046825	10047284	RC6-HT0592-270300-Q11-D11 cDNA	1	GGAGGTGAGTTGATTTCCCGAGGTAC ATTTCATGGTGTGACAGACACATGG
595	Table 3A	Hs.222746	AB046830	10047294	mRNA for KIAA1610 protein, partial cds /cds=(0,1456)	1	AGATCCTTTCACTCCCTAGACCTCCA TTCACCTGTTTCTCTTCTGCTGG
596	Table 3A	Hs.6639	AB046844	10047324	mRNA for KIAA1624 protein, partial cds /cds=(0,1800)	1	GATCCGATCATGGTATGTACGGGG TGAATTCCTTTGCCGTGTGCAAT
597	Table 3A	Hs.288140	AB046857	10047350	mRNA for KIAA1637 protein, partial cds /cds=(0,1441)	1	ATGGTTTCAAAATTCAGGTCGCCAA ATGGCAGCATTTATGTTCTGACC
598	Table 3A	Hs.44566	AB046861	10047358	KIAA1641 protein (KIAA1641), mRNA /cds=(40,453)	1	CAAGTATGTATGCAACTTGCACACC AACAACTGTTAATCTGTAGCTAGT
599	Table 3A	Hs.82113	AB049113	10257384	dUTP pyrophosphatase (DUT), mRNA /cds=(29,523)	1	TGGTGATTCTCCAGGCCATTTAATAC CTGCAATGTAATTTGCCCTCTGT
600	Table 3A	Hs.323463	AB051480	12697930	mRNA for KIAA1693 protein, partial cds /cds=(0,2707)	1	TTCTGCCCTCAATGTTACTGTGCCTTT GTTTTTGTAGTTTGTGTGTG
601	Table 3A	Hs.19597	AB051481	12697932	mRNA for KIAA1694 protein, partial cds /cds=(0,2274)	1	ACTACTGTACAGTGTGTGACAAA GAGATGTGAAATACTTTTCAGGCAA
602	Table 3A	Hs.20281	AB051487	12697944	mRNA for KIAA1700 protein, partial cds /cds=(108,2180)	1	TGTTGAACGGTTAACTGTGCATTTTC TCATTTTGTATGTGTGATGTTGTT
603	Table 3A	Hs.7076	AB051492	12697954	mRNA for KIAA1705 protein, partial cds /cds=(1713,3209)	1	AATGGTCAAGGTTCAAGCATATTTCTAT ATGAAGATCACAAGGTGGTATCGT
604	Table 3A	Hs.25127	AB051512	12697994	mRNA for KIAA1725 protein, partial cds /cds=(0,3129)	1	TGTGAACCTTGTGCGCAATGTGCGAGA TTCAATGTTCTTGTACAGATTGA
605	Table 3A	Hs.66053	AB051540	12698050	mRNA for KIAA1753 protein, partial cds /cds=(0,2457)	1	CCCCTTGGGCTCAGCAGAAAGGGC TTTCAATGAATTAAGTGAAACTT
606	Table 3A	Hs.7187	AB051544	12698058	mRNA for KIAA1757 protein, partial cds /cds=(347,4576)	1	AATGAGTTGTGTTGAAGCTCCGTCT CCCATCCTTGCTGTAGCCCGTAG
607	Table 3A	Hs.248367	AB058677	14017778	MEGF11 protein (MEGF11), mRNA /cds=(159,3068)	1	AGCCCTAAACATGTATACGTGCATTTT ATGGGTGACTTTGAAAGATCTGT
608	Table 3A	Hs.227400	AF000145	3095031	mitogen-activated protein kinase kinase kinase 3 (MAP4K3), mRNA /cds=(360,3014)	1	ACCAGGTTTTAGCAAAATGCACACTT TTGGCTCTTTTGGTATATGTTCT
609	Table 3A	Hs.8180	AF000652	2795862	syndecan binding protein (syntenin) (SDCBP), mRNA /cds=(148,1044)	1	CCTGACTCCTCCTTGCACAAACAAATG ATAGTTGACACTTTCTGATTT
610	Table 3A	Hs.147916	AF000982	2580549	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3 (DDX3), transcript variant 2, mRNA /cds=(856,2844)	1	TTGTATTGGCATAATCAGTGACTTGT ACATTCAGCAATAGCATTTGAGCA
611	Table 3A	Hs.13980	AF000993	2580571	ubiquitously transcribed tetratricopeptide repeat gene, X chromosome (UTX), mRNA /cds=(26,4231)	1	TTGTTAAGTTGCAATTACTGCAATGA CAGACCAATAAACAACTGCTGCCA
612	Table 3A	Hs.159523	AF001622	3930162	class-I MHC-restricted T cell associated molecule (CRTAM), mRNA /cds=(0,1181)	1	ACAGCAAACTTTGGCATTATGTGGA GCATTTCTCATTTGTTGGAATCTGA
613	Table 3A	Hs.58435	AF001862	2232149	FYN-binding protein (FYN-120/130) (FYN), mRNA /cds=(30,2381)	1	TGGTCATTCTGCTGTGTTCAATAGGT GCCAATGTGAAGTCTGGATTTTAA
614	Table 3A	Hs.76918	AF002020	2276462	Niemann-Pick disease, type C1 (NPC1), mRNA /cds=(123,3959)	1	GGCATGAAATGAGGGACAAAGAAAG CATCTCGTAGGTGTGTCTACTGGGT
615	Table 3A	Hs.18792	AF003938	2897941	thioredoxin-like, 32kD (TXNL), mRNA /cds=(205,1074)	1	AATCTTGACACATGCAATTGTAAATAA AAGTCAACCACTTTTGCCAAAGCTT
616	Table 3A	Hs.337778	AF004230	2343108	hypothetical protein FLJ11068 (FLJ11068), mRNA /cds=(163,1188)	1	TGATGCCCTTCATCTGTTTCAGTCATCT CCAAAAACAGTAAAAATAACCACT
617	Table 3A	Hs.183805	AF005213	2843115	ankyrin 1, erythrocytic (ANK1), transcript variant 3, mRNA /cds=(84,5726)	1	GGCCAAAGCTGAATGCCATGAATATCA GTGAGACGCGTTATAGGAATCCT
618	Table 3A	Hs.42915	AF006082	2282029	ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA /cds=(74,1258)	1	CCTGCCAGTGTGAGAAAATCCTATTT ATGAATCCTGTCGGTATTCCTTGG



Table 8

619	Table 3A	Hs.6895	AF006088	2282037	actin related protein 2/3 complex, subunit 3 (21 kD) (ARPC3), mRNA /cds=(25,581)	1	TCAAGAAATTTGGGTGGGAGAAAGAA AGTGGGTATCAAGGGTGATTGA
620	Table 3A	Hs.82425	AF006088	2282041	actin related protein 2/3 complex, subunit 5 (16 kD) (ARPC5), mRNA /cds=(24,479)	1	CAAACCTGGTGAGAAATTCATAAAC TCTTTGCTGTTTTGATACCTGCT
621	Table 3A	Hs.22670	AF006513	2645428	chromodomain helicase DNA binding protein 1 (CHD1), mRNA /cds=(163,5282)	1	GCTACTTGTTTACATTGTACACTGCG ACCACCTTGGCGCTTTTCATCACA
622	Table 3A	Hs.24752	AF008518	2245670	spectrin SH3 domain binding protein 1 (SSH3BP1), mRNA /cds=(81,1607)	1	ACTGGATGCTACAGACTTATAACAGC ATAGTGAATGGTAAGACTAGTGCA
623	Table 3A	Hs.321149	AF007155	2852635	cDNA FLJ10257 fis, clone HEMBB1000887 /cds=UNKNOWN	1	CCTCCCTATGCCCTCAGCCCCATCTC TGCTCCTGTTGAATTTTGTTATT
624	Table 3A	Hs.5409	AF008442	2266928	RNA polymerase I subunit (RPA40), mRNA /cds=(22,1050)	1	CCAGTGTGACTAGGGATCCTGAGTTT TCTGGGACAATCCGAGCTTTAATC
625	Table 3A	Hs.225977	AF012108	2331249	nuclear receptor coactivator 3 (NCOA3), mRNA /cds=(183,4421)	1	TGACCCCTCTTTAAGTTATGTGTGTG GGGAGAAATAGAATGGTGCTCTTA
626	Table 3A	Hs.334874	AF012872	2326226	phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds /cds=(0,6134)	1	GTGTGAGTCTCTGTTTGCACCTGGAC ATATTCCTACCTGTCTTATTTC
627	Table 3A	Hs.199291	AF015041	4102706	NUMB-R protein (NUMB-R) mRNA, complete cds /cds=(209,2038)	1	AGGGGAAGGGGTGCCTGGCGGGTAC TTTTCTATCTTTTATTTCCAGATT
628	Table 3A	Hs.51233	AF016266	2529562	TRAIL receptor 2 mRNA, complete cds /cds=(117,1439)	1	TCATGCTTCTGCCCTGTCAAAGGTCC CTATTTGAAATGTGTTATAATACA
629	Table 3A	Hs.76807	AF016270	2655005	major histocompatibility complex, class II, DR alpha (HLA-DRA), mRNA /cds=(26,780)	1	AGGTAGCAGATCGTAGATGTTTGTA TTGTCTTGCAATTGTACAGACTT
630	Table 3A	Hs.104624	AF016495	6560598	aquaporin 9 (AQP9), mRNA /cds=(288,1173)	1	AGCCCAGAATCCCAAAGGCATTAGG TTTCCCACTGCTTTGTGCTGATA
631	Table 3A	Hs.10958	AF021819	2460317	RNA-binding protein regulatory subunit (DJ-1), mRNA /cds=(20,589)	1	GTGTCTATACATTCTAAGCCTTGTTT GCAGAATAACAGGGCATTTAGC
632	Table 3A	Hs.125134	AF023142	4102966	pre-mRNA splicing SR protein rA4 mRNA, partial cds /cds=(0,3473)	1	TAGAGGTGTACAGATGCTATATTATA TCCGCTCCCGGTGTACTGCAGCCC
633	Table 3A	Hs.108809	AF026292	2559009	chaperonin containing TCP1, subunit 7 (eta) (CCT7), mRNA /cds=(68,1699)	1	TTTTACAAGGAAGGGGTAGTAATTGG CCCACTCTCTTCTTACTGGAGGCT
634	Table 3A	Hs.168103	AF026402	2655201	prp28, U5 snRNP 100 kd protein (U5-100K), mRNA /cds=(39,2501)	1	ACACGGTGAACCTGGCTGTGTCCTACT TTGTCACTGAGTGAATCTCTGTT
635	Table 3A	Hs.9573	AF027302	2522533	ATP-binding cassette, sub-family F (GCN20), member 1 (ABCF1), mRNA /cds=(94,2517)	1	TGAGGACTTGGGGCAGGAAGGAAT GCTGTGAACCTGAATTTCCCTTTA
636	Table 3A	Hs.188132	AF031167	2739159	interleukin 15 (IL15), mRNA /cds=(316,804)	1	TCAGACCTTGGATCAGATGAACCTCTT AGAATGAAGGCAGAAAATGTCA
637	Table 3A	Hs.170133	AF032885	2895491	forkhead box O1A (rhabdomyosarcoma) (FOXO1A), mRNA /cds=(385,2352)	1	CCACGTTCTGTGTCGGATACTCTGAG AAGTGCCTGATGTTGATGACTTA
638	Table 3A	Hs.74276	AF034607	4426566	chloride intracellular channel 1 (CLIC1), mRNA /cds=(236,961)	1	GCCTGGGTGAGATTTTATTGTGGGG TGGGATGAGTAGGACAACATATTT
639	Table 3A	Hs.106890	AF035306	2661087	clone 23771 mRNA sequence /cds=UNKNOWN	1	GGTGCCCACTGGCATGTGAAGGGG AGGCAGTTCTCAATTTATTTCAATA
640	Table 3A	Hs.184697	AF035307	2661068	clone 23785 mRNA sequence /cds=UNKNOWN	1	CAGTCACTGGGTCTATATTAACAGC AACACAGCAACAATGGCAACA
641	Table 3A	Hs.278589	AF035737	2827179	general transcription factor II, I (GTF2I), transcript variant 1, mRNA /cds=(370,3366)	1	TGACATGGTAGCAGAAATAGGCCCTT TTATGTGTTGCTTCTATTTACCT
642	Table 3A	Hs.8257	AF035947	9695283	cytokine-inducible inhibitor of signalling type 1b mRNA, complete cds /cds=(3131,3925)	1	AGCAAAGAACAGTTTGGTGGTCTTTT CTCTTCCACTGATTTTCTGTAT
643	Table 3A	Hs.6900	AF037204	2906012	ring finger protein 13 (RNF13), mRNA /cds=(151,1296)	1	AGCCCTGCTAAACTATGTACAGAGGA AACTGTTCAAGTATTGGATTGAA
644	Table 3A	Hs.155489	AF037448	3037012	NS1-associated protein 1 (NSAP1), mRNA /cds=(204,1892)	1	TGTCACAGATGTTTCCAGTAGTGTT AGATTTGGTGTCTTCAAAGGTAGT
645	Table 3A	Hs.12311	AF038202	2795923	clone 23570 mRNA sequence /cds=UNKNOWN	1	GGCTTTTGGCCATCAAGATAAAAA GAAATAAACCAAGGGTTACCGG
646	Table 3A	Hs.76807	AF038564	2708328	major histocompatibility complex, class II, DR alpha (HLA-DRA), mRNA /cds=(26,790)	1	TGCCTGTTGCACATCTTGTAATAATG GACAATGGCTCTTAGAGAGTTAT
647	Table 3A	Hs.303627	AF039575	2773157	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA-binding protein 1, 37kD) (HNRPD), transcript variant 1, mRNA /cds=(285,1352)	1	TGCGGCTAGTTCAGAGAGATTTTAG AGCTGTGGTGGACTTCATAGATGA
648	Table 3A	Hs.29417	AF039942	4730928	HCF-binding transcription factor Zhangfei (ZF), mRNA /cds=(457,1275)	1	AATGGAAGGATTAGTATGGCCTATTT TAAAGCTGCTTTGTTAGTTTCT
649	Table 3A	Hs.8185	AF042284	5256829	CGI-44 protein; sulfide dehydrogenase like (yeast) (CGI-44), mRNA /cds=(76,1428)	1	CCATGTGGGCTACTCATGATGGGCTT GATCTTTGGGAATTAATAAGATGA
650	db mining	Hs.298727	AF042838	2815887	MEK kinase 1 (MEK1) mRNA, partial cds /cds=(0,4487)	1	AACGAGCCAGTGGGGAACCCCTTAC CTAAGTATGTGATTGACAAATCATG
651	Table 3A	Hs.82280	AF045229	2906029	regulator of G-protein signalling 10 (RGS10), mRNA /cds=(43,546)	1	CCTCTCAGGACGTGCCGGGTTTATCA TTGCTTTGTTATTTGTAAGACTG
652	Table 3A	Hs.62112	AF046001	2895869	zinc finger protein 207 (ZNF207), mRNA /cds=(202,1638)	1	CCACTGCCCTGAAGGTTTGTACAGAT GCATGCCACAGTAGATGTCCACAT



Table 8

653	Table 3A	Hs.241520	AF047002	2896145	transcriptional coactivator ALY mRNA, partial cds /cds=(0,701)	1	TTTGGGATAAAATTTACTGGTTGCTG
654	Table 3A	Hs.132904	AF047033	5051627	sodium bicarbonate cotransporter 3 (SLC4A7) mRNA, complete cds /cds=(71,3715)	1	TGTGGAGAAAGGTGGCGTTTCCA
655	Table 3A	Hs.60785	AF047442	3335139	SEC22, vesicle trafficking protein (S. cerevisiae)-like 1 (SEC22L1), mRNA /cds=(119,766)	1	CTCGTCTATTGGCCCCCTGTAGAAAGT
656	Table 3A	Hs.40323	AF047472	2921872	BUB3 (budding uninhibited by benzimidazoles 3, yeast) homolog (BUB3), mRNA /cds=(70,1056)	1	TCCCCTCTGTGCCCTAGTAAGCCCA
657	Table 3A	Hs.26584	AF051782	2947237	diaphanous 1 (HDIA1) mRNA, complete cds /cds=(0,3746)	1	AAACCTATTTCCCTTGCCTCATAGGC
658	Table 3A	Hs.313	AF052124	3360431	secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1) (SPP1), mRNA /cds=(87,989)	1	TTCTGGGATGTCATCACCTCCAGT
659	Table 3A	Hs.227949	AF052155	3360466	SEC13 (S. cerevisiae)-like 1 (SEC13L1), mRNA /cds=(60,1028)	1	CTATTTTGGGTCATTTTATGTACCTT
660	literature	Hs.115770	AF053712	3057145	tumor necrosis factor (ligand) superfamily, member 11 (TNFSF11), transcript variant 1, mRNA /cds=(156,1109)	1	TGGGTTGAGGCATTATTTGGGGG
661	Table 3A	Hs.178710	AF054174	3341991	clathrin, heavy polypeptide (Hc) (CLTC), mRNA /cds=(172,5199)	1	TAATTGTTGAACAGGTGTTTTCCACA
662	Table 3A	Hs.233952	AF054185	4092057	proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7), mRNA /cds=(24,770)	1	AGTGCCGCAAAATGTACCTTTTT
663	Table 3A	Hs.158164	AF054187	4092059	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) (TAP1), mRNA /cds=(30,2456)	1	CCCCCTCAGAAGAATCATGAATTTGC
664	Table 3A	Hs.334826	AF054284	4033734	splicing factor 3b, subunit 1, 155kD (SF3B1), mRNA /cds=(0,3914)	1	AACAGACCTAATTTTGGTTACTT
665	Table 3A	Hs.13131	AF055581	3845720	lymphocyte adaptor protein (LNK), mRNA /cds=(357,2084)	1	GGCCTTCCATTCCATTATTCACACT
666	Table 3A	Hs.278501	AF056322	3252910	SPG-100 (SP100) gene, partial cds; and high mobility group 1-like protein L3 (HMG1L3) retropseudogene sequence /cds=(0,617)	1	GAGTGTCTCAATAAATGACCTCCG
667	Table 3A	Hs.6856	AF056717	3046994	ash2 (absent, small, or homeotic, Drosophila, homolog-like (ASH2L), mRNA /cds=(4,1890)	1	TGGTGTCTCAAAGGAGTAAGTGCAGC
668	Table 3A	Hs.169895	AF061736	4335936	ubiquitin-conjugating enzyme E2L 6 (UBE2L6), mRNA /cds=(47,508)	1	TGTTGTGAAATTTGACTGTTTC
669	Table 3A	Hs.182579	AF061738	4335940	leucine aminopeptidase (LOC51058), mRNA /cds=(186,1745)	1	TGCCAGTAGTGACCAAGAACACAGTG
670	Table 3A	Hs.184592	AF061944	6933863	protein kinase, lysine deficient 1 (PRKWNK1), mRNA /cds=(0,7148)	1	ATTATATACACTACTACTGGAGGGA
671	Table 3A	Hs.79015	AF063591	12002013	antigen identified by monoclonal antibody MRC OX-2 (MOX2), mRNA /cds=(57,869)	1	AGGACACATCTGACATCTGTGTTTG
672	Table 3A	Hs.11000	AF063805	4071360	MYO47 protein (MYO47), mRNA /cds=(84,479)	1	GTTAAATATACAGCACATTGTGA
673	Table 3A	Hs.129708	AF064090	3283355	tumor necrosis factor (ligand) superfamily, member 14 (TNFSF14), mRNA /cds=(48,770)	1	TGGGGTGTGTAATTTGGCATGGAAT
674	Table 3A	Hs.83530	AF064839	4206051	map 3p21; 3.15 cR from WI-9324 repeat region, complete sequence /cds=UNKNOWN	1	TTAAAGCAGGTTCTTGTAGTGCA
675	Table 3A	Hs.4747	AF067008	3873220	dyskeratosis congenita 1, dyskerin (DKC1), mRNA /cds=(92,1636)	1	TGTGAAAGAACTTGCTTGACGCTTT
676	Table 3A	Hs.307357	AF067519	3850317	PITSLRE protein kinase beta SV1 isoform (CDC2L2) mRNA, complete cds /cds=(79,2412)	1	AACAAAATGAGAAACTTCCAAAAT
677	Table 3A	Hs.307357	AF067529	3850337	PITSLRE protein kinase beta SV1 isoform (CDC2L2) mRNA, complete cds /cds=(79,2412)	1	GTATATATCTCCAGCATTGAGTCCA
678	Table 3A	Hs.268763	AF068235	4321975	Breakpoint cluster region protein, uterine leiomyoma, 1; barrier to autointegration factor (BCRP1), mRNA /cds=(507,778)	1	GGGGGAGCCACGGAAACCATGTTT
679	Table 3A	Hs.341182	AF068836	3192908	602417256F1 cDNA, 5' end /clone=IMAGE:4536829 /clone_end=5'	1	TGTGATGCTAGGAACATGAGCAAAC
680	Table 3A	Hs.92384	AF070523	3764088	vitamin A responsive; cytoskeleton related (JWA), mRNA /cds=(89,655)	1	GAAAATTACTATGCATTGTGAGA
681	Table 3A	Hs.151903	AF070525	3387880	clone 24706 mRNA sequence /cds=UNKNOWN	1	AACCAGTATATCTGTGTTATCTGAT
682	Table 3A	Hs.26118	AF070582	3387954	hypothetical protein MGC13033 (MGC13033), mRNA /cds=(200,304)	1	GGGACGGTTGACAGTGGTCAGGGA
683	Table 3A	Hs.108823	AF070635	3283905	mRNA for KIAA1823 protein, partial cds /cds=(52,1185)	1	ATCCAGTGGCCTAGGAATTAAAGTGT
							TGTTGTTTTGCTGTTAAATTGGA
							GCATTGGCAGCATTGTGCTTTGACC
							TTGTATACTAGCTTGACATAGTGC
							TTTCAATGGTGTGAAGGAAGGAGCGT
							GGTGCAATTGGACATGGGCTGACAC
							AGACTGCACAACCAAGAAGTTACTCA
							AAGCTCTGTGGGAGCCCCCTGCCTG
							CAGTGCTCACCTAAATCCATCTGACT
							ACTTGTTCTGTGCCCTCTTGT
							GTGACGACGACCTGAAGGAGACGGG
							CTTCCACCTTACCACCACGAACCCAG
							AACAGGATAAAGCTCGCCGGGAATG
							GGAAAGACAGAAGAGAAGGGAATG
							CCTCACCCCCACCCTCACTTTCAATC
							CGTTTGATACCAATTTGGCTCCTTT
							ATGGAAGATGTGGTCTGAGATGGGT
							GCTGCAAGATCATAATAAAGTCA
							CCATGACTTCACAGACATGGTCTAGA
							ATCTGTACCCTTACCCACATATGA
							CTGTGAATGTTTGACAGTCTCCTACCG
							TCTCAACTACAGCTGCAGTTGCTA
							CAGCCTGAATTGCCTCTGGGAAGAG
							GGGTGGGAATGACTTTTCAATGTAC
							AATGGCCTAGAAATTTGGGTAGTTCG
							CAAAGAGGTTCTCCTAGGTGGTCT

Table 8

684	Table 3A	Hs.108112	AF070840	3283913	Homo sapiens, histone fold protein CHRAC17; DNA polymerase epsilon p17 subunit, clone MGC:2725 IMAGE:2822216, mRNA, complete cds /cds=(80,523)	1	CAGTGAAGTTTGTGAGTGAAGAAT GCTGAGAAGATTGTAATGCTTTGT
685	Table 3A	Hs.76581	AF070873	3978241	stannin mRNA, complete cds /cds=(175,441)	1	TTGTCTCAAAGCTACCAAGTTTGTGC AATAAGTGAAGGGATGTCATCCT
686	Table 3A	Hs.223615	AF070874	3978243	RC2-BN0074-150400-018-c08 cDNA	1	ACATCGAAGGTGTCATATATGTTGA ATGACATTTTAGGGACATGGTGT
687	Table 3A	Hs.112255	AF071078	4545098	nucleoporin 98kD (NUP98), mRNA /cds=(124,5262)	1	GGCTATCTCAGGCAATATGGCCAGCA CCTGGGTCTTTATGTCATGAAGATA
688	Table 3A	Hs.76095	AF071598	3851531	Immediate early response 3 (IER3), mRNA /cds=(11,481)	1	GCTGTACGGAGCGACTGTCGAGAT CGCCTAGTATGTTCTGTGAACACAA
689	Table 3A	Hs.18571	AF072860	3290197	protein kinase, interferon-inducible double stranded RNA dependent activator (PRKRA), mRNA /cds=(96,1037)	1	AGCTGCTGACTTGACTGTCATCCTGT TCTTGTTAGCCATTGTGAATAAGA
690	Table 3A	Hs.79877	AF072928	3916215	myotubularin related protein 6 mRNA, partial cds /cds=(0,1398)	1	CTCACAGGTGGACTGAGAAATCAGTT ACATCTTAAGTGACCTACAGGGTA
691	Table 3A	Hs.143648	AF073310	4511968	insulin receptor substrate-2 (IRS2) mRNA, complete cds /cds=(516,4532)	1	GTGCATTGTATTATTAGTCTGTTGATC ATGGATGCCCTCCTTAATAGCCA
692	Table 3A	Hs.151411	AF075587	3319325	KIAA0916 protein (KIAA0916), mRNA /cds=(146,14071)	1	CCTGTACAATTGCATCAGGGTGGG GATAAAAAGAGGAATATTCTGGTTT
693	Table 3A	Hs.550	AF076465	5430704	phosducin (PDC), transcript variant PhLOP2, mRNA /cds=(5,358)	1	AAACAGAGCTGTCTTCAGCAACATTA TTAGTAGACAAAGAGGATGTGGAT
694	Table 3A	Hs.4311	AF079568	4574148	SUMO-1 activating enzyme subunit 2 (UBA2), mRNA /cds=(25,1947)	1	ACTCAAGTTTTCAGTTTGTACCGCT GGTATGTCTGTGTAAGAAGCCAAT
695	db mining	Hs.158376	AF080577	3551871	RAG2 mRNA, partial cds /cds=(0,324)	1	TGACTCCTGCCAAGAAATCCTTTCTT AGAAGGTTGTTGATTAGTTTTC
696	Table 3A	Hs.107979	AF081282	4336324	small membrane protein 1 (SMP1), mRNA /cds=(99,572)	1	TTGTATTATCTGCTTTCGTGATGTAGA CAAGAGTTAACTGAGTAGCATGC
697	Table 3A	Hs.36794	AF082569	4206702	cyclin D-type binding-protein 1 (CCNDBP1), mRNA /cds=(87,1172)	1	AAAGATTGTTGGTTAGGCCAGATTGA CACCTATTATAAACCATATGCGT
698	Table 3A	Hs.8765	AF083255	3435311	RNA helicase-related protein (RNAHP), mRNA /cds=(17,2148)	1	TGGTAAGTGTCCAGGATGCTCCAG GTTTGAGATGGTATTGCTAAATTT
699	Table 3A	Hs.168913	AF083420	5326765	serine/threonine kinase 24 (Ste20, yeast homolog) (STK24), mRNA /cds=(78,1373)	1	TGCACCTTGATGGATTCTGCATAT CATCTTCCACCTCAAAATGTCT
700	Table 3A	Hs.327548	AF084555	5813858	hypothetical protein MGC10788 (MGC10788), mRNA /cds=(38,169)	1	CACTAGCACTTGTGATGCAATAGAAC ACTTCGCCTGTACTGAAAGGGCCA
701	Table 3A	Hs.211610	AF090893	4249665	apoptosis-related RNA binding protein (NAPOR-3) mRNA, complete cds /cds=(67,1593)	1	ACGCAGGCTTTCCTATTCTACAAC TATTGTACTTATGCATTTTGTACC
702	Table 3A	Hs.5437	AF090891	6890159	Tax1 (T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA /cds=(83,2326)	1	CAGGAGCTACTTTGAGTTTGGTGTTA CTAGGATCAGGGTCAGTCTTTGGC
703	Table 3A	Hs.192705	AF090927	6890220	PRO0457 protein (PRO0457), mRNA /cds=(985,1431)	1	TAGAGAGAGGCCCGTGGCCTGAGGT AGTGCAGAGGAGGATAGTAGAGCAG
704	Table 3A	Hs.201675	AF091263	4140648	RNA binding motif protein 5 (RBM5), mRNA /cds=(148,2595)	1	TTTTGGAAGATTTTCAGTCTAGTTGC CAAATCTGGCTCCTTTACAAAAGA
705	Table 3A	Hs.241558	AF099149	3930775	ariadne (Drosophila) homolog 2 (ARIH2), mRNA /cds=(144,1625)	1	AAGTTAATTGAGGCAATGTCATCTGC TCAAAGTTGAGTGGTTATTACACA
706	Table 3A	Hs.306357	AF103458	4378245	isolate donor N clone N168K immunoglobulin kappa light chain variable region mRNA, partial cds /cds=(0,303)	1	TTCAGTGATTACTGTCAGCAGTAT GGTAGCTCACCGTGGACGTTCCGGC
707	Table 3A	Hs.184601	AF104032	4426639	L-type amino acid transporter subunit LAT1 mRNA, complete cds /cds=(66,1589)	1	TATTCTGTGTTAATGGCTAACCTGTTA CACTGGGCTGGGTTGGGTAGGGT
708	Table 3A	Hs.294603	AF104398	4063708	601657573R1 cDNA, 3' end /clone=IMAGE:3875611 /clone_end=3'	1	AAACTGAATGAGAGAAAATTGTATAA CCATCCTGCTGTTCTTTAGTGCA
709	Table 3A	Hs.7043	AF104921	9409793	succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA /cds=(31,1032)	1	TGACACTGGTCTTGCAGTACAAC TGG AAGCCAAAACAAGGTGGAAGATGT
710	Table 3A	Hs.4876	AF105366	5108522	solute carrier family 12 (potassium/chloride transporters), member 6 (SLC12A6), mRNA /cds=(51,3350)	1	GGTCAAGTATATTGGACCTATTATC CTCGGCAAGCCAAGATGCAAAACAT
711	Table 3A	Hs.167460	AF107405	5531903	pre-mRNA splicing factor (SFRS3) mRNA, complete cds /cds=(95,589)	1	AGTTCACAATATGGTTCAAATGTAAC AGTGCAGAAATTGAATATGGAGGCA
712	Table 3A	Hs.79335	AF109733	4566529	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 (SMARCD1), mRNA /cds=(265,1572)	1	TTGCATCTTCCAGGAGAGCCTCACA TTCTTCTCCAGGTTGTATCACCC
713	Table 3A	Hs.274472	AF113008	6842739	high-mobility group (nonhistone chromosomal) protein 1 (HMG1), mRNA /cds=(52,699)	1	GTGAGTCAGGAGCAGGAGCGTGCGG ACCAAAAATCCTCAGCCCTACGAC

Table 8

714	Table 3A	Hs.180946	U66589	1575566	ribosomal protein L5 pseudogene mRNA, complete cds /cds=UNKNOWN	1	TCACCTTATGCAATGTGAATTATCACT ACAGAACTCCATCTTACTCCAGA
715	Table 3A	Hs.109441	AF113213	11640573	cDNA FLJ14235 fis, clone NT2RP4000167 /cds=(82,2172)	1	TTTGATGTAATATAACCTAACGTTGTG CTGGTACCTGTTTACCATTGTGT
716	Table 3A	Hs.297681	AF113676	6855600	clone FLB2803 PRO0684 mRNA, complete cds /cds=(1108,2364)	1	CTCCATCCCTGGCCCCCTCCCTGGAT GACATTAAGAAGGGTTGAGCTGG
717	Table 3A	Hs.297681	AF113676	6855600	clone FLB2803 PRO0684 mRNA, complete cds /cds=(1108,2364)	1	CTCCATCCCTGGCCCCCTCCCTGGAT GACATTAAGAAGGGTTGAGCTGG
718	Table 3A	Hs.75117	AF113702	6855636	interleukin enhancer binding factor 2, 45kD (ILF2), mRNA /cds=(39,1259)	1	GGCTTAGCTGCCAGTCTCCCATTTGT GACCTATGCCATCCATCTATAATG
719	Table 3A	Hs.177415	AF116606	7959715	PRO0890 mRNA, complete cds /cds=(1020,1265)	1	GGCCCCAATGCCAACTCTTAAGTCTT TTGTAATTCGGCTTCTCTAATA
720	Table 3A	Hs.321158	AF116620	8924008	hypothetical protein PRO1068 (PRO1068), mRNA /cds=(1442,1750)	1	TGTCAGGTTTGGGCTTGGGTTCAAG TGTATATATCTGTGAAGTTTCTT
721	Table 3A	Hs.288036	AF116679	7959856	tRNA isopentenylpyrophosphate transferase (IPT), mRNA /cds=(60,1040)	1	TGCATCGTAAACCTTCAGAAAGGAAA GGAGAATGTTTGTGGACCATTT
722	Table 3A	Hs.238205	AF116682	7959862	PRO2013 mRNA, complete cds /cds=(135,380)	1	TTGACATTCTGCGAAAGCAACAAGCA AACTGAAGACCACTCTATAGAGA
723	Table 3A	Hs.83583	NM_005731	5031598	actin related protein 2/3 complex, subunit 2 (34 kD) (ARPC2), mRNA /cds=(84,986)	1	CGCCTCTTCAGGTTCTTAAGGGATTC TCGGTTTGGTTCCATTTGTAGACA
724	Table 3A	Hs.128740	AF118274	4680228	DNb-5 mRNA, partial cds /cds=(0,1601)	1	CCTTGTGGACAGGGGACAGGCTG CCTACTGGAATGTAATATGTGATA
725	Table 3A	Hs.225939	AF119417	7670074	sialyltransferase 9 (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase; GM3 synthase) (SIAT9), mRNA /cds=(277,1365)	1	TTTCTGAATGCCTTACCTGGCGGTGA TACCAGGCAGTGTCCAGTTTAAA
726	Table 3A	Hs.184011	AF119665	6563255	pyrophosphatase (inorganic) (PP), nuclear gene encoding mitochondrial protein, mRNA /cds=(77,946)	1	TGTGCAAGGGGAGCACATATTGGAT GTATATGTTACCATATGTTAGGAAA
727	Table 3A	Hs.2188	AF119850	7770136	Homo sapiens, eukaryotic translation elongation factor 1 gamma, clone MGC:4501 IMAGE:2964623, mRNA, complete cds /cds=(2278,3231)	1	TCAAGTGAACATCTCTTGCCATCACC TAGCTGCCTGCACCTGCCCTTCAG
728	Table 3A	Hs.111334	AF119897	7770230	PRO2760 mRNA, complete cds /cds=UNKNOWN	1	CCGAGGAGAAGCGCGAGGGCTACGA GCGTCTCCTGAAGATGCAAAACCAG
729	Table 3A	Hs.9851	AF123073	12698331	C/EBP-induced protein (LOC81558), mRNA /cds=(30,1391)	1	GCAGCTGTTTGAAGTTTGTATATTTTC CGTACTGCAGAGCTTACACAAAA
730	Table 3A	Hs.180566	AF123094	5669089	mucosa associated lymphoid tissue lymphoma translocation gene 1 (MALT1), mRNA /cds=(164,2638)	1	GCCTGTGAATAGTACTGCACATTACA TAAAGTGAGACATTGTGAAAAGGC
731	Table 3A	Hs.7540	AF126028	7158285	unknown mRNA /cds=(0,1261)	1	GCTCTGATTGTACAAGAATTACCTGT GCTAGTCAAGTTGTTGTTTTCTT
732	Table 3A	Hs.15259	AF127139	6724085	BCL2-associated athanogene 3 (BAG3), mRNA /cds=(306,2033)	1	CTGTCTTTTGTAGCTCTGGACTGGAG GGGTAGATGGGAGTCAATTACCC
733	Table 3A	Hs.304177	AF130085	11493474	clone FLB8503 PRO2288 mRNA, complete cds /cds=UNKNOWN	1	GGTACAACCTTCAACTATTCTTCCAT GCGGACCCCTCTCGCCAAAGAA
734	Table 3A	Hs.279789	AF130094	11493492	histone deacetylase 3 (HDAC3), mRNA /cds=(55,1341)	1	GCAATTCCTCCCTGCGTCATGGATTTC AAGGTCCTTTAATCACCTTCGGT
735	Table 3A	Hs.6456	AF130110	11493523	clone FLB6303 PRO1633 mRNA, complete cds /cds=(2546,3097)	1	CCTTCGGCTTTAACAATAGGTCTAATTTA TTTGCCGTGCCATTTTCCATACA
736	Table 3A	Hs.333555	AF131753	4406571	cytoplasmic protein mRNA, complete cds /cds=(236,3181)	1	TGGTTGGAAGTGGGTGGGTTATGA AATTGTAGATGTTTTAGAAAACCT
737	Table 3A	Hs.64001	AF131762	4406584	clone 25218 mRNA sequence /cds=UNKNOWN	1	ACCTTCCTCCAGGAAAAGCCATTCAA GCCTGATTATTTTCTAAGTAAC
738	Table 3A	Hs.8148	AF131856	4406702	selenoprotein T (LOC51714), mRNA /cds=(138,629)	1	CTGTATAGCTTTCACCTCCACACA AAATCACCCAGTTAATGTGTGTGT
739	Table 3A	Hs.301824	AF132197	11493539	hypothetical protein PRO1331 (PRO1331), mRNA /cds=(422,616)	1	GGGGTACCTGTGTTGAGTTGATAAAC ATTTCATCTTCATTAAGAACTGCT
740	Table 3A	Hs.79933	AF135162	7259481	cyclin I (CCN1), mRNA /cds=(0,1133)	1	TGTCACCTTTGACGCTGTTTCTGT CATGTAGTTTCAACAAGTGCTACC
741	Table 3A	Hs.160417	AF137030	6649056	transmembrane protein 2 (TMEM2), mRNA /cds=(148,4299)	1	ATGCTACCTCAAAGTGCTACCGATAA ACCTTTCTAATTGTAAGTGCCCTT
742	Table 3A	Hs.70337	AF138903	7767238	nectin-like protein 2 (NECL2) mRNA, complete cds /cds=(3,1331)	1	AGCACCCATTCCGACCATAGTATAAT CATATCAAAGGGTGAGAATCATTT
743	Table 3A	Hs.65450	AF148537	10039550	reticulon 4a mRNA, complete cds /cds=(141,3719)	1	TGTGGTTTAAGCTGTACTGAACTAAA TCTGTGGAATGCATTGTGAACTGT
744	Table 3A	Hs.334466	AF151049	7106819	hypothetical protein (LOC51245), mRNA /cds=(0,359)	1	ATTACGAAGATGAACCAAGTAAACGAG GACATGGAGTGACTATCGGGGCGG
745	Table 3A	Hs.278429	AF151054	7106829	hepatocellular carcinoma-associated antigen 59 (LOC51759), mRNA /cds=(27,896)	1	TCCTCCAGCTGACAGAAAAATCCAGG ATGAGATCAGAAGGATACTGGTGT
746	db mining	Hs.274509	AF151103	5758136	T-cell receptor aberrantly rearranged gamma-chain mRNA from cell line HPB-MLT /cds=UNKNOWN	1	TTTACACGCCCTGAAGCAGTCTTCTT TGCTAGTTGAATTATGTGGTGTGT
747	Table 3A	Hs.279918	AF151875	4928702	hypothetical protein (HSPC111), mRNA /cds=(62,598)	1	GTTTCACGGAAGGCCAGAACCTGCT GTTTTACGGGTGGGTGATGTAATA

Table 8

748	Table 3A	Hs.31323	AF153419	13133509	IkappaB kinase complex-associated protein (IKBAP) mRNA, complete cds /cds=(310,4308)	1	AGTGCTCTTGCTTTGGATAACTGTAA AGGGACCCATGCTGATAGACTGGA
749	Table 3A	Hs.296323	AF153609	5231142	serum/glucocorticoid regulated kinase (SGK), mRNA /cds=(42,1337)	1	TGCCCCAGTTGTGCTGAGAGCCGTT GGTGTTTTTCATTGTTTAAATGT
750	Table 3A	Hs.22350	AF157116	8571911	cDNA: FLJ23595 fis, clone LNG15262 /cds=UNKNOWN	1	AAACCAATGGACAACTTCTTGCTTC AAGGAACAACTCTTAGGTTGGCA
751	Table 3A	Hs.5548	AF157323	7688696	p45SKP2-like protein mRNA, complete cds /cds=(37,2081)	1	AAACATCATGAGAGTGGAGGCCCTGC CAGCCAGAAAGGCACATAGTGTGC
752	Table 3A	Hs.19807	AF161339	6841091	rho-gtpase activating protein ARHGAP9 (ARHGAP9), mRNA /cds=(406,2658)	1	AGTGGATTAAACCCCTGCTTCTCTCT TGTTCCCTGTTATCATTCCTCCCC
753	Table 3A	Hs.259683	AF161364	6841141	HSPC101 mRNA, partial cds /cds=(0,558)	1	GTCTGCTTATTCGTGCTCTTACTAG GTTCAATTTCTTGAGGCGCGTGAT
754	Table 3A	Hs.180145	AF161415	6841243	HSPC297 mRNA, partial cds /cds=(0,438)	1	TGGCTTGACTGACATGACGTTCCATA AATGCAGATGTTGTCTCATTTACC
755	Table 3A	Hs.339814	AF161430	6841273	nt85d12.s1 cDNA /clone=IMAGE:1205303	1	GCCAGACTTGAAGAGGGCTCCAGA AAAAGTAGATGCGTATCTGTACAAA
756	Table 3A	Hs.284295	AF161451	6841315	HSPC333 mRNA, partial cds /cds=(0,443)	1	CGTCTTAATGTTACCGTCCACAGCT TTGGAATAAACCATCCTGGGAAGT
757	Table 3A	Hs.284285	AF161455	6841323	HSPC333 mRNA, partial cds /cds=(0,443)	1	TAAATGTTACCGTCCACAGCTTTGG AATAAACCATCCTGGGAAGTGTCT
758	Table 3A	Hs.284162	AF165521	9294748	60S ribosomal protein L30 isolog (LOC51187), mRNA /cds=(143,634)	1	TCTAGCCAGCATTTAGTCTAGAAGCA GAGGAATCCAGCGCTTTTAAAA
759	Table 3A	Hs.283740	AF173296	9622518	DC6 protein (DC6), mRNA /cds=(161,466)	1	TTGCTCAGCATGCCAGCTTTAAGAT TGAATTAGATTGTGTTGTGTT
760	Table 3A	NA	AF173954	6002959	Cloning vector pGEM-URA3	1	AAAAGGTATAGAAATGCTGGTTGGAA TGCTTATTTGAAAAAGACTGGCCA
761	Table 3A	Hs.81001	AF174605	6184752	F-box protein Fbx25 (FBX25) mRNA, partial cds /cds=(0,818)	1	CTGCTTCACGCTGTGCTCCGCGAGC ACTTCATCGACCTGTTCAAGTTT
762	Table 3A	Hs.288836	AF176706	6573265	hypothetical protein FLJ12673 (FLJ12673), mRNA /cds=(2,1687)	1	AGAGCAGCTTGTGTATGTAACGCTT CAGTGAACCTTGCTAATGATCCAA
763	Table 3A	Hs.250619	AF182420	10197639	phorbol-like protein MDS019 (MDS019), mRNA /cds=(231,1385)	1	TCAAACCTACTAATCCAGCGCAATT TGAATCGGTTTGTAGGTAGAGAA
764	Table 3A	Hs.279789	AF187554	6853225	histone deacetylase 3 (HDAC3), mRNA /cds=(55,1341)	1	TCAAACCTCCGTCATGTTTAAAGAAC TTTTATCTTTTCTTCTCATGCT
765	Table 3A	Hs.49163	AF189011	8886721	ribonuclease III (RN3) mRNA, complete cds /cds=(245,4369)	1	TTTCCATCTGTGTGCCAGATTGTGAC CCTAGACTTTCAATTGACAAGTAA
766	Table 3A	Hs.106778	AF189723	6826913	calcium transport ATPase ATP2C1 (ATP2C1A) mRNA, complete cds /cds=(202,2913)	1	CATGTCGTTAGATGGAACATGGAAGC CATTGCTAATCAACTCATCAT
767	Table 3A	Hs.102506	AF193339	7341090	eukaryotic translation initiation factor 2-alpha kinase 3 (EIF2AK3), mRNA /cds=(72,3419)	1	ATGTAATCCTGTAGGTTGGTACTTCC CCCAAACTGATTATAGGTAACAGT
768	Table 3A	Hs.179573	AF193556	6907041	collagen, type I, alpha 2 (COL1A2), mRNA /cds=(139,4239)	1	TGAATGATCAGAAGTGACATTTAATTC ATGTTTGTCTCGCCATGCTTCTT
769	Table 3A	Hs.126550	AF195514	11225484	VPS4-2 ATPase (VPS42) mRNA, complete cds /cds=(201,1535)	1	TTTGACATTTACATATGCTATGTGG TTGCCCTTGGGTTTCTGTACAGT
770	Table 3A	Hs.56542	AF195530	9739018	Homo sapiens, X-prolyl aminopeptidase (aminopeptidase P) 1, soluble, clone MGC:15561 IMAGE:3139868, mRNA, complete cds /cds=(140,2011)	1	TGGTCATGTTCCAGGTGCTAGTACAT CATTATGATCACCTTAATGCTCA
771	Table 3A	Hs.44143	AF197569	11385353	BAF180 (BAF180) mRNA, complete cds /cds=(98,4844)	1	AGCATAAAGAGTTGTGGATCAGTAGC CATTTTAGTTACTGGGGGTGGGGG
772	Table 3A	Hs.160999	AF198814	7582270	AV848418 cDNA, 3' end /clone=GLCBJC04 /clone_end=3'	1	TCAACACTTTGCTTTATTTGACACAAC CAGACTTCTCAGTTCCTGTCT
773	Table 3A	Hs.26367	AF202092	11493699	PC3-96 protein (PC3-96), mRNA /cds=(119,586)	1	ATGAAGAAAATCATTGAGACTGTGTGC AGAAGGAGGGGAGAACTTGGAGT
774	Table 3A	Hs.182982	AF204231	6808610	88-kDa Golgi protein (GM88) mRNA, complete cds /cds=(342,2237)	1	ACTGAAAGACTTTTGCTTAAAGTGGC ATTATTGACTGCTGATGATGCT
775	Table 3A	Hs.197298	AF205218	12003208	NS1-binding protein-like protein mRNA, complete cds /cds=(555,2483)	1	TTGTTGGTAACTCTGTAATTCCTAA CTATCACTGGTTTGGTTCTGGACT
776	Table 3A	Hs.155530	AF208043	6644296	IFI16b (IFI16b) mRNA, complete cds /cds=(264,2312)	1	CCACCATATATACTAGCTGTTAATCCT ATGGAATGGGGTATTGGGAGTGC
777	literature	Hs.185708	AF208502	6630993	early B-cell transcription factor (EBF) mRNA, partial cds /cds=(0,1761)	1	AGAGGAATCTGAAAGTGACGGGTGTT GGTTAAAGTTGACCTCCCAAGTA
778	Table 3A	Hs.5862	AF208844	7582275	hypothetical protein (BM-002), mRNA /cds=(39,298)	1	TTTTTCTCCATCCTGTTTCTAGCACAA AAATTTGCTGCTGTGTACAAA
779	Table 3A	Hs.82911	AF208850	7582287	BM-008 mRNA, complete cds /cds=(341,844)	1	CAGATTGATTGAAAGGTGTGCGAGCC TGATTTAAACCAACCTGAACC
780	Table 3A	Hs.12830	AF208855	7582297	hypothetical protein (LOC51320), mRNA /cds=(67,459)	1	GCAACTAATAAGCCAAGGAATCGACA TATATTAGGTGCGTGTACTGTTTC
781	Table 3A	Hs.295231	AF212224	9437514	CLK4 mRNA, complete cds /cds=(153,1514)	1	TGTCAGTGATAAATGTGATTGATCT TGCCCTTTGTACATGGAGGTACCC
782	Table 3A	Hs.284162	AF212226	13445483	60S ribosomal protein L30 isolog (LOC51187), mRNA /cds=(143,634)	1	TCTAGCCAGCATTTAGTCTAGAAGCA GAGGAATCCAGCGCTTTTAAAA
783	Table 3A	Hs.68844	AF212233	13182748	microsomal signal peptidase subunit mRNA, complete cds /cds=(57,635)	1	AGGGAACAGTGTGGAGATGTTTTGT CTTGTCCAAATAAAGATTACCA
784	Table 3A	Hs.332404	AF212241	13182760	CDA02 protein (CDA02), mRNA /cds=(2,1831)	1	ACCCATTGGTATACACAGAATTATCC TGTGCCACACTTAATGTCAATCT

Table 8

785	Table 3A	Hs.9414	AF217190	11526792	MLE1 protein (MLE1) mRNA, complete cds /cds=(73,3099)	1	TTGATGATACCACCAGTAAAAATAGG
786	Table 3A	Hs.288850	AF220858	7107358	cDNA: FLJ22528 fis, clone HRC12825 /cds=UNKNOWN	1	ATGTTTACCCCAAAACAAGTGTC
787	Table 3A	Hs.46847	AF223469	7578788	TRAF and TNF receptor-associated protein (AD022), mRNA /cds=(16,1104)	1	TTTCAACCGAAAGGGCAGATCCAATA
788	Table 3A	Hs.79025	AF226044	9295326	HSNFRK (HSNFRK) mRNA, complete cds /cds=(641,2938)	1	GAAGACCCGCTCCTTAAATAAACA
789	Table 3A	Hs.112242	AF228422	12656020	normal mucosa of esophagus specific 1 (NMES1), mRNA /cds=(188,440)	1	ACAGAGGCAAAAGTTAAGCTTGATGAT
790	Table 3A	Hs.55173	AF231023	7407145	cadherin, EGF LAG seven-pass G-type receptor 3, flamingo (Drosophila) homolog (CELSR3), mRNA /cds=(281,10218)	1	GGTAAAAATCGGTTTGATAGCACC
791	Table 3A	Hs.4788	AF240468	9992877	nlcastrin mRNA, complete cds /cds=(142,2271)	1	TGGTTGATTTCCCTCATTTGTGTAAC
792	Table 3A	Hs.198015	AF241534	9502099	hydatidiform mole associated and imprinted (HYMAI) mRNA, complete sequence /cds=UNKNOWN	1	ATTGACAGGTATGTGACAAATGGG
793	Table 3A	Hs.81897	AF241785	12005486	NPD012 (NPD012) mRNA, complete cds /cds=(552,2252)	1	CACAACTAGATTCTGGACACCAAGTG
794	Table 3A	Hs.153042	AF244129	10197716	cell-surface molecule Ly-9 mRNA, complete cds /cds=(30,1994)	1	TGCGGAAATGCTTCTGCTACATTT
795	Table 3A	Hs.20597	AF244137	7670839	host cell factor homolog (LCP), mRNA /cds=(316,1536)	1	GGCCCTCTTCTCTGTCTGTGTAAT
796	Table 3A	Hs.145956	AF246126	8571416	zinc finger protein mRNA, complete cds /cds=(1073,3133)	1	GTTCCGTGAAGCCGCTCTGTTT
797	Table 3A	Hs.239625	AF246221	7658294	integral membrane protein 2B (ITM2B), mRNA /cds=(170,970)	1	CACTGTCCTTCTCCAGGCCCTCAGA
798	Table 3A	Hs.6289	AF248238	12005510	hypothetical protein FLJ20886 (FLJ20886), mRNA /cds=(0,524)	1	TGGCACATTAGGGTGGCGTGTCTG
799	Table 3A	Hs.81248	AF248648	9246972	CUG triplet repeat, RNA-binding protein 1 (CUGBP1), mRNA /cds=(137,1585)	1	AGGAGCTATGATTAGACTTCTGTAG
800	Table 3A	Hs.81248	AF248648	9246972	CUG triplet repeat, RNA-binding protein 1 (CUGBP1), mRNA /cds=(137,1585)	1	ACTTCTCACTCTATCACCACAT
801	Table 3A	Hs.183434	AF249968	12005688	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M8-9 (APT6M8-9), mRNA /cds=(102,1154)	1	ACCCACTTTCTCCTTGGTAAAGCGTT
802	Table 3A	Hs.24125	AF251039	7547030	putative zinc finger protein (LOC51780), mRNA /cds=(744,4997)	1	TACTTAACAAAATAATACCCGAGA
803	Table 3A	Hs.103521	AF254411	9438032	ser/arg-rich pre-mRNA splicing factor SR-A1 (SR-A1) gene	1	ATATCATGCTCAGCGCTGGAGTGT
804	Table 3A	Hs.42949	AF260237	14009497	hypothetical protein HES6 (HES6), mRNA /cds=(0,874)	1	ATGTGATGTGAATGGCCTAGAGAAC
805	Table 3A	Hs.174131	AF261087	8802306	ribosomal protein L6 (RPL6), mRNA /cds=(26,892)	1	CTATTTTGTGTCTAAAGTTTACA
806	Table 3A	Hs.153612	AF261091	10179833	iron inhibited ABC transporter 2 mRNA, complete cds /cds=(111,1982)	1	AGATCCTGTCTCTTTAGCCCTCACT
807	Table 3A	Hs.44198	AF263613	8453173	membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds /cds=(225,2573)	1	AATCAAGTTGGGTCTATCTTCCC
808	Table 3A	Hs.107707	AF265439	12005981	mitochondrial ribosomal protein S15 (MRPS15), mRNA /cds=(0,851)	1	AGTGTAGTTGGCTGCTGTACCTAGT
809	Table 3A	Hs.8084	AF267858	12006038	HT033 mRNA, complete cds /cds=(203,931)	1	TTGTAGTGCAATTTGAGCACACAT
810	Table 3A	Hs.8084	AF267858	12006038	HT033 mRNA, complete cds /cds=(203,931)	1	AATCCTTTAACTCTGCGGATAGCATT
811	Table 3A	Hs.77690	AF267863	12006052	RAB5B, member RAS oncogene family (RAB5B), mRNA /cds=(20,567)	1	TGGTAGGTAGTGATTAAGTGTGAA
812	Table 3A	Hs.8203	AF269150	9755050	endomembrane protein emp70 precursor isoform (LOC56889), mRNA /cds=(18,1779)	1	CTTGAATCAGAAGTCCCTGCAAG
813	Table 3A	Hs.287288	AF271994	8515856	dopamine responsive protein DRG-1 mRNA, complete cds /cds=(15,938)	1	GGAGGAGGAGCTTATTCTTGGTGTA
814	Table 3A	Hs.147644	AF272148	8575774	zinc finger protein 331; zinc finger protein 463 (ZNF361), mRNA /cds=(376,1767)	1	CTTGAATCAGAAGTCCCTGCAAG
815	Table 3A	Hs.339912	AF277292	8664852	qh07h08.x1 cDNA, 3' end /clone=IMAGE:1844027 /clone_end=3'	1	AAGTGAAGTGGGTGAATCTACTTT
816	Table 3A	Hs.287369	AF279437	10719561	Interleukin 22 (IL22), mRNA /cds=(71,610)	1	TTATGTTGGAGTGGACCAATGTCT
817	Table 3A	Hs.198270	AF283645	11545416	folate transporter/carrier (LOC81034), mRNA /cds=(128,1075)	1	TGGGATTCATTGGCCCATAGGTACAT
						1	TGGAAATGTATATCTCTCCAGCT
						1	GGGACCCCAAGGCTGAGGATGG
						1	GAGACAGAGACCACTGTGACTTG
						1	TGTTGTAGCACACTTGAGTTTGTG
						1	ATTCCATTGACATCAATGTGACA
						1	CGATCTGTGTTTGCTCTGACGAATGG
						1	AATTTATCCTCACAATTTGGTGT
						1	CCAGGAGCGTGGTTTCTGATTGTGA
						1	TCTGAGGTTCTGCCCAACTGCAC
						1	ACATTACCTAATATTCTCACTAGCTAT
						1	GTTCTCCAATCCCACTGCCTTT
						1	AGACAGCCCTGCCAAAGCCATACCAA
						1	AGACACTCAAAGACAGCCAAATAAA
						1	AGAGATAGCACAGATGGACCAAAAGG
						1	TTATGCACAGGTGGGAGTCTTTTGT
						1	AGAGATAGCACAGATGGACCAAAAGG
						1	TTATGCACAGGTGGGAGTCTTTTGT
						1	GCCTTTCTTCTCTCCCAACATAACA
						1	ATCGTGGTAACAGAATCGGACTGC
						1	ACCGGTAAAGTGGGGATGGGGTAA
						1	AAGTGGTTAAGTACTGTTGGATCA
						1	GCCAGTGCTTAAAAACGCCCTTCTTG
						1	CATGAGGGGATTGAACATATACAA
						1	CCGGGAAGGCATGTAAACCACTAAA
						1	CCATCTCCGAGAACATCAGAGGATC
						1	TGTCAGGCTGGCTTGGTTAGGTTT
						1	CTGGGGCAGAGGATAGGGAATCTC
						1	GGTGATTCCAAATGAACCCCTGCGT
						1	TAGTTACAAGGAAACCAATGCCA
						1	ATTATCGTAAACATCCACGAGTGCT
						1	GTTGCACTACCATCTATTGTTGT

Table 8

818	Table 3A	Hs.324278	L08048.1	184250	mRNA; cDNA DKFZp566M063 (from clone DKFZp566M063) /cds=UNKNOWN	1	TGGGGGTTGTAAATTGGCATGGAAAT TAAAGCAGGTTCTTGTGGTGCA
819	Table 3A	Hs.118481	AF283777	10281735	CD72 antigen (CD72), mRNA /cds=(108,1187)	1	GATAGGGGCGGCCCGAGCCAGCCCA GGCAGTTTTATTGAAATCTTTTAA
820	Table 3A	Hs.283022	AF287008	9624485	triggering receptor expressed on myeloid cells 1 (TREM1), mRNA /cds=(47,751)	1	CATTTGTACCCTAGGCCACGAACCC ACGAGAATGTCCCTCTGACTTCCAG
821	Table 3A	Hs.44865	AF286571	9858157	lymphoid enhancer factor-1 (LEF1) mRNA, complete cds /cds=(654,1853)	1	AGTGGGATTTTATGCCAGTTGTATAA ATGAGCATTGATGATCCCATTTTT
822	Table 3A	Hs.212172	AF294900	10242315	beta-carotene 15,15'-dioxygenase (BCDO), mRNA /cds=(218,1881)	1	CTTTCCTTGTCTCCCTCCCATGTTTCT GGTGGACTAAATGTGTATCTGG
823	Table 3A	Hs.7886	AF302505	10242358	pellino (Drosophila) homolog 1 (PELI1), mRNA /cds=(4038,5294)	1	AGTTTTCTAGATTGTACATGCTTTGT GACTAATGCAAGAAAGCAAGTCC
824	Table 3A	Hs.47783	AF307339	12751140	B aggressive lymphoma gene (BAL), mRNA /cds=(228,2792)	1	GAAACACTTTCAGGACCTTCTCTCCT CTTCAGTTGTTCTTTAATCTCCT
825	Table 3A	Hs.250528	AF308285	12060321	Homo sapiens, clone IMAGE:4098694, mRNA, partial cds /cds=(0,2501)	1	CTCGAGGGGCCAATTACAGGAGCAC AGGAAGGTTCTGATTACACCTCT
826	Table 3A	Hs.153057	AF311312	10863767	infertility-related sperm protein mRNA, complete cds /cds=(188,2978)	1	TTGAGTTAAGTTGCATTTCTTTGGGC TATGAAGGAGTCCCTTAAGTTTG
827	Table 3A	Hs.6151	AF315591	11139703	pumilio (Drosophila) homolog 2 (PUM2), mRNA /cds=(23,3217)	1	AGGGATTGTTTCTGGACCAGTTTGTG TAAAGTCTGGCTCTTATTGGTTCA
828	Table 3A	Hs.194976	AF318438	12667351	SH2 domain-containing phosphatase anchor protein 1 (SPAP1), mRNA /cds=(303,1070)	1	TGAACTGCTGCTACATCCAGACACTG TGCAATAAATTATTCTGCTACC
829	Table 3A	Hs.36752	AF318476	11762083	protein kinase anchoring protein GKAP42 (GKAP42), mRNA /cds=(174,1274)	1	ACTATGCAGTTTCTTGAAGGAACT AAAAGCAACTAGCTCCCTAATGGT
830	Table 3A	Hs.114309	AF323540	12408012	apolipoprotein L-I mRNA, splice variant B, complete cds /cds=(273,1517)	1	GTCCTTCCAGCATCCACTCTCCCTTG TCCTCCTGGGGCATATCTCAGTC
831	Table 3A	Hs.27721	AF332469	12642816	Wolf-Hirschhorn syndrome candidate 1-like 1 (WHSC1L1), transcript variant long, mRNA /cds=(518,4831)	1	GCAGTAGGTAGGCTCACTTCTCTTTC CTTCAAATGCTTTTCATAGGCT
832	Table 3A	Hs.203181	AF333025	13938737	Bv8 protein (BV8) mRNA, partial cds /cds=(0,356)	1	TCTGCTGTTGGGCTGGTGTGTGGAC AGAAGGAATGGAAGCCAAATTAAT
833	Table 3A	NA	AI904802	6495189	1q12-21.2 Contains a cyclophilin-like gene, a novel gene, ESTs, GSSs and STS	1	CCACTTGGAAATAGGAATATCACCCCT ATCTTGAAGACCAGGTGGAGGCT
834	Table 3A	Hs.5122	AJ001235	12418001	602293015F1 cDNA, 5' end /clone=IMAGE:4387778 /clone_end=5'	1	GCCCTATGGCGTTGTTAAACACGAGC GTATGCTAGTAAGTATCATTATA
835	Table 3A	Hs.9071	AJ002030	2570006	progesterone receptor membrane component 2 (PGRMC2), mRNA /cds=(6,677)	1	GTGGGTGCATGGGCTGTGGAGTGG GTGTCAGTATGGATGTCTGAATG
836	Table 3A	Hs.186769	AJ006835	3238105	RNA transcript from U17 small nucleolar RNA host gene, variant U17HG-AB /cds=UNKNOWN	1	CATTGCTGTGTATGCCAGTCCCATC CGTGTCTGCTGTAACATACAGA
837	Table 3A	Hs.181461	AJ009771	3648273	arladne (Drosophila) homolog, ubiquitin-conjugating enzyme E2-binding protein, 1 (ARIH1), mRNA /cds=(314,1987)	1	TGTCTGCTTCTTCCATTTCTCGTCTC TCTCCCTCTTCCCCCATATCC
838	Table 3A	Hs.18259	AJ010842	3648129	XPA binding protein 1; putative ATP(GTP)-binding protein (NTPBP), mRNA /cds=(24,1148)	1	TGGGCAAGACATGATTAATGAATCAG AATCCTGTTTCATTGGTGACTTGG
839	Table 3A	Hs.109281	AJ011895	3758818	Nef-associated factor 1 (NAF1), mRNA /cds=(110,2017)	1	CCAGATTAGGGTGGCTGTCCATCCCT GGATAGCTATTGACGCAATCATG
840	Table 3A	Hs.306328	AJ012504	5441364	mRNA activated in tumor suppression, clone TSAP13 extended /cds=UNKNOWN	1	CGGAGCTCTGGCTCTGCTGTAGGAA GCCCGGTACGTCCTTCATGACAGCA
841	Table 3A	Hs.118958	AJ012508	5441365	syntaxin 11 (STX11), mRNA /cds=(183,1046)	1	GCACTGAATATCGAACAAGCACTCAA ATTGAAGTATCAGTCATGTTTGT
842	Table 3A	Hs.58103	AJ131693	4584422	mRNA for AKAP450 protein /cds=(222,11948)	1	AGCTCGAGGTGCTCTGCACTTTTCTT ATAAGGCTACTGAAGTTACATGTT
843	Table 3A	Hs.59757	AJ132592	6822171	zinc finger protein 281 (ZNF281), mRNA /cds=(23,2710)	1	TGCCATTGGAATGTTTCTACACGATC CTATTAAGAATAATGTGATGCCCT
844	Table 3A	Hs.326159	AJ223075	3355596	leucine rich repeat (in FLII) interacting protein 1 (LRRFIP1), mRNA /cds=(178,2532)	1	GGATAACAAGTAATGTCTGAAAGCA TGAGGGGCTTTATTGTCCTTTACC
845	Table 3A	Hs.137548	AJ223324	3392916	CD84 antigen (leukocyte antigen) (CD84), mRNA /cds=(44,1030)	1	TGTTTTCTCTACTACATTGTACATGTG GGAATTACAGATAAACGGAAGCC
846	Table 3A	Hs.333140	AJ225093	3090427	mRNA for single-chain antibody, complete cds (scFv2) /cds=(0,806)	1	AAAACCTCATCTCAGAAGAGGATCTGA ATGGGGCCGACATCACCATCATC
847	Table 3A	Hs.27182	AJ238243	4826530	mRNA for phospholipase A2 activating protein /cds=(28,2244)	1	AAACCCCTTTAAATGAGGGCCAGTAT TATCTCTGCTTTCAGAAAGTAGACA
848	Table 3A	Hs.6947	AJ238403	12697195	mRNA for huntingtin interacting protein 1	1	GACCTGACTCCACTCTTAAACCTGGG TCTTCTCCTTGGCGGTGCTGTGAC
849	Table 3A	Hs.54642	AJ243721	6008497	methionine adenosyltransferase II, beta (MAT2B), mRNA /cds=(0,1004)	1	CTTTTATAGCAGTTTATGGGGAGCAC TTGAAGAGCGTGTGATCATGTAT

Table 8

850	Table 3A	Hs.55968	AJ245539	6688165	partial mRNA for GalNAc-T5 (GALNT5 gene) /cds=(0,2006)	1	AGATCCTGAAAGTAGCTGCCTGTGAC
851	Table 3A	Hs.18827	AJ250014	8250235	cytindromatosis (turban tumor syndrome) (CYLD), mRNA /cds=(391,3261)	1	CCAGTGAAGCCATATCAAAAGTGG TACTGCTAAGTGCCTGGTGGGGTGG TGAGATGATGATTAGATCAGGGGT
852	Table 3A	Hs.250905	AJ250865	6688221	hypothetical protein (LOC51234), mRNA /cds=(0,551)	1	TTGTACCCAGAGACTATGATTTATATT GATTGCACCTTGCCTGCCATGATT
853	Table 3A	Hs.169610	AJ251595	6491738	mRNA for transmembrane glycoprotein (CD44 gene) /cds=(178,2408)	1	TTTCAGATGCTTCTGGGAGACACCAA AGGGTGAAGCTATTTATCTGTAGT
854	Table 3A	Hs.107393	AJ270952	7587995	chromosome 3 open reading frame 4 (C3orf4), mRNA /cds=(880,1641)	1	TTGTGGTAATATGATGTGCCCTTTCCTT GCCTAAATCCCTTCCCTGGTGTGT
855	Table 3A	Hs.135187	AJ271326	12043566	unc93 (C.elegans) homolog B (UNC93B), mRNA /cds=(41,1834)	1	CACAAGGTGCGCGGTTACCGCTACTT GGAGGAGGACAACCTCGGACGAGAG
856	Table 3A	Hs.126355	AJ271684	6900101	C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 5 (CLECSF5), mRNA /cds=(197,763)	1	TAGACTCACGAACAAATCCACCTGAG ATCAGCAGAGCCACCTAGATCAG
857	Table 3A	Hs.334647	AJ271747	9714271	hypothetical protein FLJ20011 (FLJ20011), mRNA /cds=(380,858)	1	CCTCAGAGGCTTACTCTAACCCTATCC CAGAATAAATGGAGACTTCATGTG
858	Table 3A	Hs.88414	AJ271878	12666977	BTB and CNC homology 1, basic leucine zipper transcription factor 2 (BACH2), mRNA /cds=(708,3233)	1	AGGCTGTTGATGCTTATCTCTGTAA CTAAGAATTTTACCTTTTGGGGGA
859	Table 3A	Hs.150601	AJ272212	7981276	mRNA for protein serine kinase (PSKH1 gene) /cds=(130,1404)	1	GTAACGATCCTCTGTATTTCAGTAA ACAGGCTGCCTCTCCAGGGAGGGC
860	Table 3A	Hs.287369	AJ277247	9868293	interleukin 22 (IL22), mRNA /cds=(71,610)	1	AACTAACCCCTTTCCCTGCTAGAAA TAACAATTAGATGCCCAAGCGGA
861	Table 3A	Hs.56247	AJ277832	9968295	mRNA for inducible T-cell co-stimulator (ICOS gene) /cds=(67,688)	1	GCCTCGACACATCCTCATCCCGACGA TGGGACACCTCAAGATGAATAATA
862	Table 3A	Hs.14512	AJ278191	8745180	DIPB protein (HSA249128), mRNA /cds=(177,1211)	1	GCACAGTCACATTCCTCTTAGGAA TCTTCCCTTCCACCTTTTACA
863	Table 3A	Hs.134342	AJ278245	12227251	mRNA for LanC-like protein 2 (lancl2 gene) /cds=(186,1538)	1	TTTGAGGTCTTTGGTTTGTAGTAA AAGCCAGTTCTGTGGTATGATGCC
864	Table 3A	Hs.279860	AJ400717	7573518	tumor protein, translationally-controlled 1 (TPT1), mRNA /cds=(94,612)	1	CATCTGAAGTGTGGAGCCTTACCCAT TTCATCACCTACAACGGAAGTAGT
865	Table 3A	Hs.130881	AJ404611	11558481	B-cell CLL/lymphoma 11A (zinc finger protein) (BCL11A), mRNA /cds=(228,2735)	1	TTTTGGCAGTTGTCTGCATTAACCTG TTCATACCCCATTTTGTCCCTTT
866	Table 3A	Hs.10647	AK000005	7209310	mRNA for FLJ00005 protein, partial cds /cds=(0,337)	1	TGGTGTATTGTACTACTCTATAGAAC TCTTGGCTTGCACCTTCTACAGCT
867	Table 3A	Hs.29052	AK000196	7020122	hypothetical protein FLJ20189 (FLJ20189), mRNA /cds=(122,841)	1	ACAGGCAAGTGACAGGGGAAAGG AATTAGTCTAAGAGTAAGGGGATGA
868	Table 3A	Hs.79110	AK000221	7020163	nucleolin (NCL), mRNA /cds=(111,2234)	1	TGGTCTCCTTGGAAATCCGCTAGTT AACATTTCAAGGGCAATACCGTGT
869	Table 3A	Hs.20157	NM_025197	13376787	hypothetical protein FLJ13660 similar to CDK5 activator-binding protein C53 (FLJ13660), mRNA /cds=(993,2252)	1	GTCTACCAGGCGAAACACACAGTTC TCCTTCTAGTTAGTATAGCGGACT
870	Table 3A	Hs.180804	AK000271	7020240	cDNA FLJ20264 fis, clone COLF7912 /cds=UNKNOWN	1	ACTTCTCTTGTAGTAAAGAGATGA CGTTGTTACCTGAGTGACAGTCA
871	Table 3A	Hs.180952	AK000299	7020288	cDNA FLJ20292 fis, clone HEP05374 /cds=(21,1403)	1	TGAGCTAAGTGTGATGCATATTTGTG AAGAAACACCCCTGTTTGGTCCCT
872	Table 3A	Hs.272793	AK000316	7020318	hypothetical protein FLJ20309 (FLJ20309), mRNA /cds=(41,1279)	1	CTGAGCAAGGCAGATGACCTAATCAC CTCAGCAGACGAATACAGCAGTGA
873	Table 3A	Hs.102669	AK000364	7020383	cDNA FLJ20347 fis, clone HEP13790 /cds=(708,1481)	1	TTTGTAATTGCTAGACCTCTTCTG TAATGGGTAAATGCGTTTGATTGT
874	Table 3A	Hs.26434	AK000387	7020405	hypothetical protein FLJ20360 (FLJ20360), mRNA /cds=(79,2304)	1	TGCTATGCTAATGTCTAGAAAGGCAT ACGATGCTACTATTATGCTCTGTT
875	Table 3A	Hs.120769	AK000470	7020580	cDNA FLJ20463 fis, clone KAT06143 /cds=UNKNOWN	1	ACTGCTCTTCTCAGGCCCAAGGTAA AAAGGTTTTTGGTCTCATGTTGAC
876	Table 3A	Hs.5811	AK000474	7020588	chromosome 21 open reading frame 59 (C21ORF59), mRNA /cds=(360,776)	1	TCACCAGCTGATGACACTTCCAAGA GATTAGCTCACCTTTCTCTAGGC
877	Table 3A	Hs.276581	AK000575	7020763	hypothetical protein FLJ20568 (FLJ20568), mRNA /cds=(6,422)	1	CAGAGTAGGCATCTGGGCACCAAGA CCTTCCCTCAACAGAGGACACTGAG
878	Table 3A	Hs.75684	AK000639	7020863	DKFZP586A011 protein (DKFZP586A011), mRNA /cds=(330,632)	1	TGCATGAAGCACTGTTTTTAAACCCA AGTAAAGACTGCTTGAACCTGTT
879	Table 3A	Hs.234149	AK000654	7020888	hypothetical protein FLJ20647 (FLJ20647), mRNA /cds=(90,836)	1	TGATTTTGCAACTTAGGATGTTTTTGA GTCCCATGGTTTCATTTTGATTGT
880	Table 3A	Hs.266175	AK000680	7020924	cDNA FLJ20673 fis, clone KAI44464 /cds=(104,1402)	1	TTTGAGCGATCTCTCACATGATGGGG TTCTTTAGTACATGGTAACAGCCA
881	Table 3A	Hs.30882	AK000689	7020935	cDNA FLJ20682 fis, clone KAI43543, highly similar to AF131823 clone 24945 mRNA sequence /cds=UNKNOWN	1	CCGGCCCTGGGACTCAGCATTTCTG ATATGCCTTAAGAAATTCATTCTGTT
882	Table 3A	Hs.243901	AK000745	7021025	cDNA FLJ20738 fis, clone HEP08257 /cds=UNKNOWN	1	AGTTTTGCTGAAGACTGGCCCTATTA ATGGACAGCTTCTCTAACAAGAGA
883	Table 3A	Hs.274248	AK000765	7021058	hypothetical protein FLJ20758 (FLJ20758), mRNA /cds=(464,1308)	1	GGGTCAATAGTTTCCCAATTTACAGGA TATTTGATGTGAGAAATAACGCA



Table 8

884	Table 3A	Hs.93872	AK000967	7021958	mRNA for KIAA1682 protein, partial cds /cds=(19,2346)	1	TGAGAGCTGAAATGAGACCATTTTACT
885	Table 3A	Hs.321245	AK001111	7022169	cDNA FLJ10249 fis, clone HEMBB1000725, highly similar to Rattus norvegicus GTPase Rab8b mRNA /cds=UNKNOWN	1	TTGTTTAAATGCTGTACTGTGCA TTGAGCTAAGACCTTAGGAAATTCAC TTTCTGCATGATAAAATGACCCAA
886	Table 3A	Hs.117950	AK001163	7022244	multifunctional polypeptide similar to SAICAR synthetase and AIR carboxylase (ADE2H1), mRNA /cds=(24,1301)	1	TGTCATTGTACACTTTATTTCCCTCAC ACTGTGTTATGCTCTGATGTGCT
887	Table 3A	Hs.194676	AK001313	7022490	tumor necrosis factor receptor superfamily, member 6b, decoy (TNFRSF6B), transcript variant 2, mRNA /cds=(827,4486)	1	GGTCTCTTTGACTAATCACCAAAAAG CAACCAACTTAGCCAGTTTATTT
888	Table 3A	Hs.7837	AK001319	7022500	phosphoprotein regulated by mitogenic pathways (C8FW), mRNA /cds=(273,1391)	1	AGGTCTCTCCTGTACATACGTGTATA TATGTGAACAGTGAGATGGCCGT
889	Table 3A	Hs.44672	AK001332	7022524	hypothetical protein FLJ10470 (FLJ10470), mRNA /cds=(6,2054)	1	ACTTGGATGCTGCCGCTACTGAATGT TTACAAATTGCTTGCCTGCTAAAG
890	Table 3A	Hs.76558	AK001381	7022572	protein phosphatase 1, regulatory (inhibitor) subunit 15A (PPP1R15A), mRNA /cds=(240,2264)	1	GGGAGGCGTGGCTGAGACCACTGG TTTGCCTATAATTTATTAACATTT
891	Table 3A	Hs.173374	AK001362	7022574	cDNA FLJ10500 fis, clone NT2RP2000369 /cds=UNKNOWN	1	TCTCCCAGAAATGTACTTATCTTACCTC GGCATGTACTGTAGTCTGACTCAGT
892	Table 3A	Hs.808	AK001364	7022577	heterogeneous nuclear ribonucleoprotein F (HNRPF), mRNA /cds=(323,1570)	1	TGTGCACTGTTGTAAACCATTCAGAA TTTCTCTGCTAGGCCCTTGATGCT
893	Table 3A	Hs.279521	AK001403	7022638	hypothetical protein FLJ20530 (FLJ20530), mRNA /cds=(10,1683)	1	CATCGGCCAGACAGAGTTGAATGCAA GCAATCCAGAGAAGTGTTCACAGC
894	Table 3A	Hs.108332	AK001428	7022679	cDNA FLJ10568 fis, clone NT2RP2002959, highly similar to UBIQUITIN-CONJUGATING ENZYME E2-17 KD 2 (EC 6.3.2.19) /cds=UNKNOWN	1	TGCTCTAGCCATCAGGTTCTTTCAAA TGCACTTTTACACTCTTGACAAAA
895	Table 3A	Hs.183297	AK001433	7022686	enhancer of polycomb 1 (EPC1) mRNA, complete cds /cds=(161,2442)	1	TGAGCATGAAATGGGATCCTGCATCA CTTGTTTTAACTATTTATTTGGC
896	Table 3A	Hs.7943	AK001437	7022693	RPB5-mediated protein (RMP), mRNA /cds=(465,1991)	1	TTTGC GGCTAGTTGGCTATTCAAGAA ACCTCGCCCTCTGAATGTGCATAC
897	Table 3A	Hs.343211	AK001451	7022717	602321909F1 cDNA, 5' end /clone=IMAGE:4425098 /clone_end=5'	1	GTTTACGTGGGAAGAACGCTAAGGGT TTGCTCCAGGAAGGAGAGGAAG
898	Table 3A	Hs.268012	AK001471	7022749	fatty-acid-Coenzyme A ligase, long-chain 3 (FACL3), mRNA /cds=(142,2304)	1	TGCTCAAATCAGGACTTAAATCATAG GCACCACATTTTTTATGTCAGACT
899	Table 3A	Hs.236844	AK001514	7022816	hypothetical protein FLJ10652 (FLJ10652), mRNA /cds=(50,1141)	1	TGAAATCTACCCATCTTGAGGGAGG ACCGTTCTCAGTTAAGCACTTGT
900	Table 3A	Hs.215766	AK001548	7022868	GTP-binding protein (NGB), mRNA /cds=(23,1924)	1	ATGAGTGTGTCGGAATCCCGCTTCA AAATACGCTCTTAAATTTATTTCT
901	Table 3A	Hs.18083	AK001630	7023001	cDNA FLJ10788 fis, clone NT2RP4000150 /cds=UNKNOWN	1	AAATCAGAACTGAGGTAGCTTAGAGA TGTAAGCGATGTAAGTGTGCGATGT
902	Table 3A	Hs.14347	AK001665	7023081	cDNA FLJ12877 fis, clone NT2RP2003825 /cds=(313,738)	1	AGGCTTTAGCAAAGATGGATATATTG GTGACTGAGACAGAAGAACTGGCA
903	Table 3A	Hs.12457	AK001676	7023081	hypothetical protein FLJ10814 (FLJ10814), mRNA /cds=(92,3562)	1	AGTGGGCCCTAAGTCACTGTGAGCTGA TAACATGATGAACCTATTGGGAGCA
904	Table 3A	Hs.169407	AK001725	7023165	SAC2 (suppressor of actin mutations 2, yeast, homolog)-like (SACM2L), mRNA /cds=(0,2165)	1	AACACTAAGCTCTCCCTCTGCCCTC AAGAATTACTCCGAAGTCACTCTG
905	Table 3A	Hs.267604	AK001749	7023205	hypothetical protein FLJ10450 (FLJ10450), mRNA /cds=(86,1622)	1	TCTGTACAGAAATGTAACTTTGGTTTT ATTTTGGCTATTCCAAGGGGT
906	Table 3A	Hs.110445	AK001779	7023283	CGH-97 protein (LOC51119), mRNA /cds=(170,922)	1	AAATTGTGCCGCACTTACCTTTTCATT GAACATGCTGCCATAACTTAGATT
907	Table 3A	Hs.12999	AK001822	7023330	cDNA FLJ10980 fis, clone PLACE1000564 /cds=UNKNOWN	1	TGGCAGGGAGCTGGGACCTGGAGAG ACAACCTCTGTAATAAACAACCTT
908	Table 3A	Hs.296323	AK001838	7023355	serum/glucocorticoid regulated kinase (SGR), mRNA /cds=(42,1337)	1	AGGGAGATAATGGAGTCCACTTTAAT TTGGAATTCTGTGTGAGCTATGAT
909	Table 3A	Hs.81648	AK001883	7023426	hypothetical protein FLJ11021 similar to splicing factor, arginine/serine-rich 4 (FLJ11021), mRNA /cds=(446,1054)	1	AGATCAGTGATACTGGTGTGATGTT GTAATCAGGTTAAACCACTTCCA
910	Table 3A	Hs.181112	AK001834	7023508	HSPC126 protein (HSPC126), mRNA /cds=(25,837)	1	CCATTTGACAGTAAGGCTCTTGCT TCTGTTGGAGGCATGGGAAATTTGT
911	Table 3A	Hs.4863	AK001942	7023519	cDNA FLJ11080 fis, clone PLACE1005181 /cds=UNKNOWN	1	TTTAACAGCCTGTCTCCCGGCATCA GGAGTCATTGAACAATCATGGATT
912	Table 3A	Hs.30822	AK001972	7023569	hypothetical protein FLJ11110 (FLJ11110), mRNA /cds=(44,1033)	1	AATACTTATTGTTGGCAGGTCAATCC ACACACTTCTGCCCTGCTGCTT
913	Table 3A	Hs.173203	AK002009	7023629	beta-1,3-N-acetylglucosaminyltransferase (BETA3GNT), mRNA /cds=(235,1428)	1	TTATCAGATGGGATACTGGGACTAT AAACAATGGAAATAAGCCACTGT
914	Table 3A	Hs.8033	AK002026	7023658	hypothetical protein FLJ11164 (FLJ11164), mRNA /cds=(56,1384)	1	CCCTGTGCCCTTCTTTGAGAGTGAA GGTGGGTGGAGTTGACCAAGAAA
915	Table 3A	Hs.92918	AK002059	7023711	hypothetical protein (BM-009), mRNA /cds=(385,1047)	1	TGTTGCGTAGAATATTACGTATTGCA TGTTTCATGCTAAAGAATGGCTGT



Table 8

916	Table 3A	Hs.155313	AK002127	7023814	DNA sequence from clone RP5-885L7 on chromosome 20q13.2-13.33. Contains ESTs, STSs, GSSs and eight CpG islands. Contains the 3' end of the NTSR1 gene for high affinity neurotensin receptor 1, a putative novel gene, a novel gene similar to a fly gene, the gene for opioid growth factor receptor (7-60 protein), the COL9A3 gene for collagen IX alpha 3, a putative novel gene similar to a fly gene, the TCFL5 gene for basic helix-loop-helix transcription factor-like 5, an ARF4 (ADP-ribosylation factor 4) pseudogene, a novel gene and the 3' end of the gene for a novel protein similar to mouse death inducer obliterator 1 (DIO-1) (contains KIAA0333) /cds=(0,3129)	1	TCTACATGTGACTGGCTTTCTTGCCC TCGTCTCTGAATGTTTAGACTCT
917	Table 3A	Hs.5518	AK002173	7023889	cDNA FLJ113111 fis, clone PLACE1010102 /cds=UNKNOWN	1	TGGTACCCAACTCACCATTGGTCC TCITTAATCTTTGAGGGTTTCAAT
918	Table 3A	Hs.270557	AK021517	10432713	cDNA FLJ11455 fis, clone HEMBA1001497 /cds=UNKNOWN	1	TTCCATTATTTCATGTACATTGGCCAG TTCTGTGCTTGTCTGACTTCT
919	Table 3A	Hs.126707	AK021519	10432715	hypothetical protein FLJ11457 (FLJ11457), mRNA /cds=(103,867)	1	AACCATCTGGAGTCAGTACAGATCAT CAATCCTTCCACATATACAAGTTC
920	Table 3A	Hs.77558	AK021563	10432767	cDNA FLJ11501 fis, clone HEMBA1002100 /cds=UNKNOWN	1	GGCCACCTGCTGACTATTGTGGTTT AAAATAAAAGGTTTACTTGTCTGC
921	Table 3A	Hs.11571	AK021632	10432852	cDNA FLJ11570 fis, clone HEMBA1003309 /cds=UNKNOWN	1	TCITTTGTAAGCAGCATGATACAAAT CTGGTGCCAGTGTATATTTTGCA
922	Table 3A	Hs.12315	AK021670	10432901	hypothetical protein FLJ11608 (FLJ11608), mRNA /cds=(581,1184)	1	CATGGATATCATGTATCCTTCCTGGT GCTCACACACCTGTCACCTTGTA
923	Table 3A	Hs.241567	AK021704	10432943	RNA binding motif, single stranded interacting protein 1 (RBMS1), transcript variant M5SP-2, mRNA /cds=(285,1434)	1	ATAAGGTGCATAAAACCCCTTAAATTC ATCTAGTAGCTGTCCCCCGAACA
924	Table 3A	Hs.271541	AK021715	10432954	cDNA FLJ11653 fis, clone HEMBA1004538 /cds=UNKNOWN	1	TGGACCGGAGTCTGCTGAGTTTATAA GGTTCCAAAAATATGGTAAAAATCT
925	Table 3A	Hs.5019	AK021776	10433029	cDNA FLJ11714 fis, clone HEMBA1005219, weakly similar to NUCLEAR PROTEIN SNF7 /cds=UNKNOWN	1	ACTCGACCTTGGTAAACGGAAATGTT GGGGGTGAAGAGAAACAATCACTA
926	Table 3A	Hs.286212	AK021791	10433048	hypothetical protein FLJ11729 (FLJ11729), mRNA /cds=(311,1150)	1	TTCAAGGTTCTGCGAAATTAATTGGG CAGGTTAATTGTGTACCTGAAACT
927	Table 3A	Hs.9098	AK021925	10433223	hypothetical protein FLJ20473 (FLJ20473), mRNA /cds=(57,1472)	1	TCGCCAGGATGGGGCCCTCATACAAAC CCTTCATCTGCACTCAACATTTAAT
928	Table 3A	Hs.288178	AK022030	10433346	cDNA FLJ11968 fis, clone HEMBB1001133 /cds=UNKNOWN	1	TTTTAGACATGGAGTGCAGGTGGACA CTGTGTGAAGTGTTTTTGGTCAGT
929	Table 3A	Hs.22285	AK022057	10433376	pyruvate dehydrogenase phosphatase (PDP), mRNA /cds=(131,1855)	1	CAAGAACTTGGTCTGTCAGTCTGGAA GCTTGTCTGCTCTATAGAAATGAA
930	Table 3A	Hs.22285	AK022057	10433376	pyruvate dehydrogenase phosphatase (PDP), mRNA /cds=(131,1855)	1	CAAGAACTTGGTCTGTCAGTCTGGAA GCTTGTCTGCTCTATAGAAATGAA
931	Table 3A	Hs.20281	AK022103	10433424	mRNA for KIAA1700 protein, partial cds /cds=(108,2180)	1	TGTTGAACGGTTAAACTGTGCAATTC TCATTTGATGTGTCATGTATGTT
932	Table 3A	Hs.9043	AK022215	10433563	cDNA FLJ12153 fis, clone MAMMA1000458 /cds=UNKNOWN	1	CCCCTTCAACTGAGGGTCATTTTACC AGAGTCAATAAAGGCCAACCCCTTC
933	Table 3A	Hs.94576	AK022267	10433626	cDNA FLJ12205 fis, clone MAMMA1000931 /cds=UNKNOWN	1	ATTCTGAGGGTGACTGAGGCTACAG CTGCTATCACACTGCCCACTTTCTT
934	Table 3A	Hs.318725	AK022280	10433640	CGI-72 protein (LOC51105), mRNA /cds=(69,1400)	1	TGGTATCAGGAGTTGGGATTTCTCAG CACTGCTAATGAAGATCCCCTCTT
935	Table 3A	Hs.132221	AK022463	10433867	hypothetical protein FLJ12401 (FLJ12401), mRNA /cds=(3,1526)	1	CGCAGAGAGGAGAAAAAGGAGACAGC AAGACGCCAATAAAGAACACAAC
936	Table 3A	Hs.105779	AK022481	10433892	cDNA FLJ12419 fis, clone MAMMA1003047, highly similar to protein inhibitor of activated STAT protein PIASy mRNA /cds=UNKNOWN	1	CCCGCACGGGAGCTGAAGGCCGCT GTTTCTAATATTTGTATTCTAATT
937	Table 3A	Hs.8068	AK022497	10433916	hematopoietic PBX-interacting protein (HPIP), mRNA /cds=(80,2275)	1	CCCCTGGGAGATGTAGCAAAATTGAGT GTGGGTTTTGGAGTCTGAGCCCTCA
938	Table 3A	Hs.179882	AK022499	10433920	hypothetical protein FLJ12443 (FLJ12443), mRNA /cds=(187,900)	1	GCAGAGGGAGGGTTGCCATGAAGGA ACTTGGGATTTTCAATGGAATAAAT
939	Table 3A	Hs.267863	AK022537	10433983	hypothetical protein FLJ12475 (FLJ12475), mRNA /cds=(18,1065)	1	CCTTTACGCTGAGCAGCAATTACCAA ATGCCATGAATTGCCACTGTGTGT
940	Table 3A	Hs.332541	AK022546	10433997	Homo sapiens, similar to RIKEN cDNA 2700083B06 gene, clone MGC:4669 IMAGE:3531883, mRNA, complete cds /cds=(87,1050)	1	AGGAAGATGGCGCTGTTATCAGCGG GGAAATGACTATTAAAGATCAGCT
941	Table 3A	Hs.21938	AK022554	10434010	hypothetical protein FLJ12492 (FLJ12492), mRNA /cds=(172,1848)	1	ATCCAAGTCTGAAACTCTGCGCTCTA GTACTGCTGTTAAGATACACAAC

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942	Table 3A	Hs.7010	AK022588	10434032	Homo sapiens, clone MGC:14452 IMAGE:4304208, mRNA, complete cds /cds=(88,1953)	1	TGGATAGCCATTTCTGCTCAACCACA CATTCTCTAAGAAACAGCTTGAAG
943	Table 3A	Hs.11558	AK022828	10434128	cDNA FLJ12588 fis, clone NT2RM400852 /cds=UNKNOWN	1	TGTTGTATGTTGGATGGGGAAGTTTGG TTTCTCCTCTTACGATTTTGTCT
944	Table 3A	Hs.173385	AK022681	10434216	hypothetical protein FLJ12619 (FLJ12619), mRNA /cds=(391,1080)	1	TCTGAATGATCCTACTCCTTTGGAGT AAACTAGTGCTTACCAGTTTCCA
945	Table 3A	Hs.288836	AK022735	10434309	hypothetical protein FLJ12673 (FLJ12673), mRNA /cds=(2,1687)	1	TCCTTTTGAGGCACCTTGGAGTCTGC AGTTGTCAAGTAAAGCTTTTAAAG
946	Table 3A	Hs.9908	AK022758	10434350	cDNA FLJ12696 fis, clone NT2RP1000513, highly similar to NIFU- like protein (hNIFU) mRNA /cds=UNKNOWN	1	GGGGGAAATTACCAAGTAGAATGCCTT GGTCTGAATATTTGATAGAACCAG
947	Table 3A	Hs.77573	AK022790	10434395	uridine phosphorylase (UP), mRNA /cds=(352,1284)	1	CTGGTACTTTACAGTTTGCACCAAC TCTGCCAAGCCACTGGATCTTACA
948	Table 3A	Hs.27476	AK022811	10434426	cDNA FLJ12749 fis, clone NT2RP2001149 /cds=UNKNOWN	1	ATCCAGTCACTCATCAAGTGAATCT GTCTCTAAATATCTCTGGAACCT
949	Table 3A	Hs.58488	AK022834	10434481	catenin (cadherin-associated protein), alpha-like 1 (CTNNA1), mRNA /cds=(43,2247)	1	AGCTTTTGGGGTCAGATCTCTGGAAC ATCATGTGATGAAGCTGACATTTT
950	Table 3A	Hs.108779	AK022874	10434520	cDNA FLJ12812 fis, clone NT2RP2002498 /cds=(3,2360)	1	AGCAGTTAGGCTTGACTTTGAGGAGA GGCTGTGATGTTTATGATCCCTGA
951	Table 3A	Hs.56847	AK022938	10434613	cDNA FLJ12874 fis, clone NT2RP2003769 /cds=UNKNOWN	1	GCTGTCCACAGAAACGCCCTTAAGT AGCCCTACCTTACTCCTTAGAGCT
952	Table 3A	Hs.14347	AK022939	10434618	cDNA FLJ12877 fis, clone NT2RP2003825 /cds=(313,738)	1	CATGGGTATTAATAGCTTTTGTCTGCT GGTAATACTGAAAGAACCTGCTTT
953	Table 3A	Hs.4859	AK022974	10434875	cyclin L ania-6a (LOC57018), mRNA /cds=(54,1634)	1	AGGATTTGATTTCTTGAAACCTCTA GGTCTCTAGAACACTGAGGACAGT
954	Table 3A	Hs.193313	AK023013	10434731	Homo sapiens, NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2 (14.5kD, B14.5b), clone MGC:1432 IMAGE:2990086, mRNA, complete cds /cds=(150,509)	1	GGACTCAGGAGCTAATACTGTCTACA GTGGAGCTTGGTGAATTAGAAGC
955	Table 3A	Hs.288141	AK023078	10434831	hypothetical protein MGC3156 (MGC3156), mRNA /cds=(156,2501)	1	ACCAGGAGGACAGAGTTTGTCTTCAT ATTTTCCCTGTAAGTAAGAGGGCT
956	Table 3A	Hs.17279	AK023088	10434845	tyrosylprotein sulfotransferase 1 (TPST1), mRNA /cds=(81,1193)	1	CCATGAAGAAAGCAAGACGAAACACA CAGGAGGGGAAATCCTGGGATTCT
957	Table 3A	Hs.142442	AK023129	10434909	cDNA FLJ13067 fis, clone NT2RP3001712, highly similar to HP1- BP74 protein mRNA /cds=UNKNOWN	1	TTGGAATTTGTGTGCATGTAAGGCA ATCTTTCCTGTTGTAATCTTCTCT
958	Table 3A	Hs.180638	AK023143	10434930	hypothetical protein FLJ13081 (FLJ13081), mRNA /cds=(170,2098)	1	AGGAACTGAGTAGACTCCTGTGTAA CCCTGTTTGGAACTTTGCCTTCTT
959	Table 3A	Hs.172035	AK023154	10434948	cDNA FLJ13092 fis, clone NT2RP3002147 /cds=(34,606)	1	TTTACAGGCAGAAAGTGGGTTAACA GTTGAATTAACCTAGCAATCCAGT
960	Table 3A	Hs.7797	AK023166	10434966	TERF1 (TRF1)-interacting nuclear factor 2 (TINF2), mRNA /cds=(282,1328)	1	TAGTAGGAATGAAGTGAAGTCCAG GCTTGGATTGCCTAATACACTGCT
961	Table 3A	Hs.72782	AK023183	10434995	hypothetical protein FLJ11171 (FLJ11171), mRNA /cds=(134,2448)	1	AGTGTTAGTCTCATGTTGGGAACAC ATGAATGTGATGAACATAGTGAAT
962	Table 3A	Hs.234285	AK023204	10435025	cDNA FLJ13142 fis, clone NT2RP3003212, moderately similar to Rattus norvegicus lamina associated polypeptide 1C (LAP1C) mRNA /cds=(55,1443)	1	ACCCTTTGAGAGTTCCAAAGCTGTA GTAGAGTGGTTAACGCTCTTCTCT
963	Table 3A	Hs.236494	AK023223	10435057	RAB10, member RAS oncogene family (RAB10), mRNA /cds=(90,692)	1	TTGCCCTTTTCTGTAACTCTCTTGG GATCCTGTGTAGAAGCTGTCTCA
964	Table 3A	Hs.288932	AK023256	10435106	hypothetical protein FLJ13194 (FLJ13194), mRNA /cds=(300,809)	1	ACTCATCAATTGAAAAGTCCCTCCAAA AAGAGAACTATTGGGAAACCATGG
965	Table 3A	Hs.126925	AK023275	10435137	hypothetical protein FLJ13213 (FLJ13213), mRNA /cds=(233,1669)	1	AGATGGGTGAATCAGTTGGGTTTGT AAATACTTGATGTGGGGAAGACA
966	Table 3A	Hs.75748	AK023290	10435162	cDNA FLJ13228 fis, clone OVARC100085, highly similar to mRNA for proteasome subunit HC5 /cds=UNKNOWN	1	TCAGACCTGGTTGATTTGTACTTTG GAACTGTACCTGGATGGTTTGT
967	Table 3A	Hs.285017	AK023291	10435163	hypothetical protein FLJ21789 (FLJ21789), mRNA /cds=(159,923)	1	GTATCTCATGCCCTTGTATGTGGAA AGAAAGTTGACAGAGGGTTGCAGGG
968	Table 3A	Hs.288929	AK023320	10435204	hypothetical protein FLJ13258 similar to fused toes (FLJ13258), mRNA /cds=(163,1041)	1	AGTTCAGTGAGAGAAACAGAACAC TTGTCTAGTGTGTGTTGTTT
969	Table 3A	Hs.227400	AK023382	10435286	mitogen-activated protein kinase kinase kinase 3 (MAP4K3), mRNA /cds=(380,3014)	1	GCAGATGGCTATGTGCTAGAGGGCA AAGAGTTGGAGTTCTATCTTAGGAA
970	Table 3A	Hs.155160	AK023379	10435291	Homo sapiens, Similar to splicing factor, arginine/serine-rich 2 (SC-35), clone MGC:2622 IMAGE:3501687, mRNA, complete cds /cds=(30,878)	1	TTGGTGTCAATGATCTGGTGACAATA GGATTACATTGGAGCCAAATGAAT
971	Table 3A	Hs.125034	AK023402	10435324	mRNA for putative N-acetyltransferase /cds=(208,2808)	1	AACTAGAAGATGTACTTCGACAGCAT CCATTTTACTTCAAGGCAGCAAGA
972	Table 3A	Hs.285107	AK023459	10435401	hypothetical protein FLJ13397 (FLJ13397), mRNA /cds=(221,1558)	1	ATACACTTTTCCAAATTTGTCCAAACA GCCCTGTAAGCCAGCTTCTTCT

Table 8

973	Table 3A	Hs.172028	AK023460	10435403	a disintegrin and metalloproteinase domain 10 (ADAM10), mRNA /cds=(468,2715)	1	GCATTTTCTTCACTTGCAGGCAAACTTGCTCTCAATAAACTTTTACCAC
974	Table 3A	Hs.315054	AK023470	10435414	hypothetical protein MGC15875 (MGC15875), mRNA /cds=(651,1178)	1	ATTAGACCAGACCAAGTGTATTTCTAAAGAAAATCCTGACATGCACACCCA
975	Table 3A	Hs.164005	AK023494	10435442	cDNA FLJ13432 fis, clone PLACE1002537 /cds=UNKNOWN	1	AGCCAAATGTGTATACATCAAACTCTCAGCAGCTTTTGCATAATCCAGG
976	Table 3A	Hs.129872	AK023512	10435467	sperm associated antigen 9 (SPAG9), mRNA /cds=(110,2410)	1	TCCTCAAAGGGGAAAACTATGAAGGGGAAGAAGACAAACCTAAGATACCA
977	Table 3A	Hs.63525	AK023529	10435489	cDNA FLJ13467 fis, clone PLACE1003519, highly similar to hnRNP-E2 mRNA /cds=UNKNOWN	1	AGATGGACTGGAGCTTTTCTTTGTGAATAGAACTGGATGCCACAGTGA
978	Table 3A	Hs.116278	AK023633	10435617	cDNA FLJ13571 fis, clone PLACE1008405 /cds=UNKNOWN	1	AGTTGTGAGAAGACTCCTGGGTGTACAGAGCAAATCAAGCTGCATCAGTA
979	Table 3A	Hs.43047	AK023847	10435632	cDNA FLJ13585 fis, clone PLACE1009160 /cds=UNKNOWN	1	AGTGGCTTCATAGCTACTGACAAATGTCTGAACTATTGTCTGGCCCTTCA
980	Table 3A	Hs.183495	AK023870	10435662	cDNA FLJ13608 fis, clone PLACE1010628 /cds=UNKNOWN	1	GCCTGTACAAACATTCAAGTTAGTTGGCAGTCTATAAATGTGAGTTGGGT
981	Table 3A	Hs.17448	AK023680	10435678	cDNA FLJ13618 fis, clone PLACE1010925 /cds=UNKNOWN	1	AAGGAAGGTAAGTTAGGGGACTAGAAGACTCTAAATGGCTTCTACAGA
982	Table 3A	Hs.178357	AK023719	10435734	hypothetical protein FLJ13657 (FLJ13657), mRNA /cds=(87,1172)	1	AGAACTAATTGCCCATGTTTAATTATAGCAGACACGCCATTCTAACAGGT
983	Table 3A	Hs.30818	AK023743	10435768	cDNA FLJ13681 fis, clone PLACE2000014, weakly similar to HYPOTHETICAL HELICASE C28H8.3 IN CHROMOSOME III /cds=UNKNOWN	1	AACCTGGTATTGTTGAGTTTATGTAGTAAGTGACTTGGCACCCTACAGA
984	Table 3A	Hs.157777	AK023779	10435815	cDNA FLJ13717 fis, clone PLACE2000425 /cds=UNKNOWN	1	AGTTTAACTTTTCTCACCCCTGTATAGAAAATGCTTGCCTCTCAAGAG
985	Table 3A	Hs.7871	AK023813	10435861	cDNA FLJ13751 fis, clone PLACE3000339, weakly similar to GLUCOAMYLASE S1/S2 PRECURSOR (EC 3.2.1.3) /cds=(436,2805)	1	GTCTTGGCTGGATGGGTTATAGAGCTGAGCGGCTGTGATGGTTCGTGTT
986	Table 3A	Hs.49391	AK023825	10435876	cDNA FLJ13763 fis, clone PLACE4000089 /cds=(56,547)	1	GACACATCTAGAATGTTTTCTTTCACCGTACCTCCAAAAGAGGCAATTT
987	Table 3A	Hs.119908	AK023975	10438193	nucleolar protein NOP5/NOP58 (NOP5/NOP58), mRNA /cds=(0,1589)	1	ACCAGGGATGCTCTCTAACGTAATCAAGGGAAGGTTCAAGAACAAAGT
988	Table 3A	Hs.26039	AK023999	10438234	cDNA FLJ13937 fis, clone Y79AA1000805 /cds=UNKNOWN	1	ACACAGTTCAGTTTTTGGAGGAACTAGTTTTGTCTATACTACACCCCT
989	Table 3A	Hs.23170	AK024023	10436276	homolog of yeast SPB1 (JM23), mRNA /cds=(300,1289)	1	TGCAGTGGGAATCTTGAGTGAAGGCTTACCTCTCTTTAAACCTCTTCA
990	Table 3A	Hs.24719	AK024029	10436287	cDNA FLJ13967 fis, clone Y79AA1001402, weakly similar to paraneoplastic cancer-testis-brain antigen (MA4) mRNA /cds=(684,1397)	1	AAGGCAGAATAGAATGCTGAGATTGGTTAAGTTTGCAATGACCATCTTGA
991	Table 3A	Hs.168232	AK024030	10436289	hypothetical protein FLJ13855 (FLJ13855), mRNA /cds=(314,1054)	1	TGCCCTAATCTTGAGTTGAGGAAATAATGACACAGGAGTCAAGAGATGT
992	Table 3A	Hs.129872	AK024068	10436350	sperm associated antigen 9 (SPAG9), mRNA /cds=(110,2410)	1	GCTAGATTGTGAAGTACATGGGATTCATGACCCAGAGGAGGCATTTGGA
993	Table 3A	Hs.333300	AK024088	10436379	hypothetical protein FLJ14026 (FLJ14026), mRNA /cds=(57,1826)	1	GCCTCAAAGAAAACCCAGAGTCCCTGTCTTAAACGTAAGTTCTGAATCC
994	Table 3A	Hs.281434	AK024090	10436383	cDNA FLJ14028 fis, clone HEMBA1003838 /cds=UNKNOWN	1	AATCCCAGGGCTTGGTTAAGTGCTGTGTGATAACTTGTGTTGATGAGACT
995	Table 3A	Hs.287864	AK024092	10436385	cDNA FLJ14030 fis, clone HEMBA1004085 /cds=UNKNOWN	1	AGGTTTCTTACCACACAAATGGACAGTGGATTGACTTTCTAAAGACT
996	Table 3A	Hs.288856	AK024094	10436388	prefoldin 5 (PFDN5), mRNA /cds=(423,926)	1	CCTGGTGATGGGAAGGGCTTGTGTTTAAATGCCATAAATGTGCCAGCT
997	Table 3A	Hs.208888	AK024118	10438421	cDNA FLJ14056 fis, clone HEMBB1000335 /cds=UNKNOWN	1	AAAATATTGAGCCAGGCCCTGGGGAAGTGGGAAGTGAGAGCCAGCGGCGC
998	Table 3A	Hs.118990	AK024119	10436422	cDNA FLJ14057 fis, clone HEMBB1000337 /cds=UNKNOWN	1	AGCACACAAGGAATCCCAGAAAATGTGGCTGAAGGAATAATGGATGGA
999	Table 3A	Hs.235498	AK024137	10438443	hypothetical protein FLJ14075 (FLJ14075), mRNA /cds=(111,2027)	1	CACTGCCTACCGCCATTGATGATTAAACCATCCAGAAATACCATCCCTGT
1000	Table 3A	Hs.289037	AK024197	10436518	cDNA FLJ14135 fis, clone MAMMA1002728 /cds=UNKNOWN	1	AAATGAGATGGCCTCTGCGGACACATGAAAGGGTACTTCACTTACCAAA
1001	Table 3A	Hs.289088	AK024202	10436523	heat shock 90kD protein 1, alpha (HSPCA), mRNA /cds=(60,2258)	1	TGGACTAGGAGAGACTGATTTTGGTGCTAAAGTTCGCCAGTTTCAATGT
1002	Table 3A	Hs.14070	AK024228	10436554	hypothetical protein FLJ14168 (FLJ14168), mRNA /cds=(203,568)	1	CTCACAGCCAGCACGACCCCAAGAAAGAGCGCTCCCAATAAACACGTC
1003	Table 3A	Hs.24115	AK024240	10436557	cDNA FLJ14178 fis, clone NT2RP2003339 /cds=UNKNOWN	1	ACAGAACATTGAGATGTGCCTAGTTTCGTATTTACAGTTTGGTCTGGCTG
1004	Table 3A	Hs.193063	AK024263	10436597	cDNA FLJ14201 fis, clone NT2RP3002955 /cds=UNKNOWN	1	TGAATTTTCAATGGGTGATTTAAGTGTGACACAAGTCACAAAATTTGCT
1005	Table 3A	Hs.183506	AK024275	10436615	hypothetical protein FLJ14213 (FLJ14213), mRNA /cds=(119,841)	1	TGTACTTAAAGTCTGTGACTGTTAGCCAGTTTACAACTTTTACCATCG
1006	Table 3A	Hs.109441	AK024297	10436644	cDNA FLJ14235 fis, clone NT2RP4000167 /cds=(82,2172)	1	TTCTGAACATTTTGTAGTCAAGCTACAACAGGTTTGGAAAACCTCTGTGGGG
1007	Table 3A	Hs.9343	AK024327	10436684	cDNA FLJ14265 fis, clone PLACE1002256 /cds=UNKNOWN	1	TGTCAAGGGCATTAAAAGCCTCCTGAGCATAATCTTATCAAAGGGATAC

Table 8

1008	Table 3A	Hs.287631	AK024331	10436690	cDNA FLJ14269 fis, clone PLACE1003864 /cds=UNKNOWN	1	TCAGTCCATCTCAAGACCTGTGCCTG
1009	Table 3A	Hs.287634	AK024372	10436742	hypothetical protein FLJ14310 (FLJ14310), mRNA /cds=(406,768)	1	TCAGATTTCACAATTATGGAGATT
1010	Table 3A	Hs.246112	AK024391	10436767	cDNA FLJ14329 fis, clone PLACE4000259, highly similar to gene for U5 snRNP-specific 200kD protein /cds=(188,5623)	1	GGTAGGAGTGAAATCTCTCTCTCAAA
1011	Table 3A	Hs.246112	AK024391	10436767	cDNA FLJ14329 fis, clone PLACE4000259, highly similar to gene for U5 snRNP-specific 200kD protein /cds=(188,5623)	1	CTCTAGGAAAGCCCGAGTCATACT
1012	Table 3A	Hs.137354	AK024426	10440360	mRNA for FLJ00015 protein, partial cds /cds=(373,1298)	1	ACAGCAGGTGTCATGGGTCAAGCATA
1013	Table 3A	Hs.171118	AK024436	10440380	DNA sequence from clone RP11-165F24 on chromosome 9. Contains the 3' end of the gene for a novel protein (similar to Drosophila CG6630 and CG11376, KIAA1058, rat TRG), an RPL12 (60S ribosomal protein L12) pseudogene, ESTs, STSs, GSSs and a CpG island /cds=(0,4617)	1	AATCATATATAGCATTTTCAGGCA
1014	Table 3A	Hs.43616	AK024439	14020950	mRNA for FLJ00029 protein, partial cds /cds=(0,723)	1	TGTGGGTCCCTATGAGTGTAGAGCC
1015	Table 3A	Hs.132569	AK024449	10440411	mRNA for FLJ00041 protein, partial cds /cds=(0,994)	1	CATATCCCATAGAGTCTACCTAGA
1016	Table 3A	Hs.289034	AK024456	10440425	mRNA for FLJ00048 protein, partial cds /cds=(2940,3380)	1	TGTTTTCATTTGAGAACATTGTGCTGT
1017	Table 3A	Hs.273230	AK024471	10440455	mRNA for FLJ00064 protein, partial cds /cds=(0,830)	1	CTGTGAGCATATGTATATCAGCT
1018	Table 3A	Hs.41045	AK024474	10440461	mRNA for FLJ00067 protein, partial cds /cds=(1209,2933)	1	TGGCTACTGCAAAACCAGTTTTGACA
1019	Table 3A	Hs.7049	AK024478	10440469	mRNA for FLJ00071 protein, partial cds /cds=(3020,3772)	1	GGTCAGATTTTCATATGTATAGGT
1020	Table 3A	Hs.6289	AK024539	10436843	hypothetical protein FLJ20886 (FLJ20886), mRNA /cds=(0,524)	1	AGAGGTTCTGAAAGGCTGTGTCTTG
1021	Table 3A	Hs.108854	AK024569	10436879	cDNA: FLJ20916 fis, clone ADSE00738, highly similar to AF161512 HSPC163 mRNA /cds=UNKNOWN	1	TCAAAACAAGTAAACGGTGGAACT
1022	Table 3A	Hs.10362	AK024597	10436910	cDNA: FLJ20944 fis, clone ADSE01780 /cds=UNKNOWN	1	ATGCGTCTCGTTTTCAATCGTGCT
1023	Table 3A	Hs.289069	AK024669	10437005	hypothetical protein FLJ21016 (FLJ21016), mRNA /cds=(90,1193)	1	GAACAAACCTATCAAAATGTAGC
1024	Table 3A	Hs.10600	AK024740	10437104	DNA sequence from clone RP11-353C18 on chromosome 20. Contains ESTs, STSs, GSSs and CpG islands. Contains the NIFS gene for cysteine desulfurase, two genes for novel proteins and the gene for the splicing factor CC1.3 with a second isoform (CC1.4) /cds=(66,839)	1	AGTATGATCCCTCAAAACCTCACTAA
1025	Table 3A	Hs.12293	AK024756	10437124	hypothetical protein FLJ21103 (FLJ21103), mRNA /cds=(88,1143)	1	CTGGAAGGATGATTTTGTCTCAGT
1026	Table 3A	Hs.23410	AK024764	10437139	translocase of inner mitochondrial membrane 13 (yeast) homolog B (TIMM13B), mRNA /cds=(46,333)	1	GAGGGTTCCTCACTGAGGTTGAGAG
1027	Table 3A	Hs.180139	AK024823	10437226	SMT3 (suppressor of mit two 3, yeast) homolog 2 (SMT3H2), mRNA /cds=(90,377)	1	GTGTGTTGGATAGGACTGATCCCAT
1028	Table 3A	Hs.159557	AK024833	10437239	karyopherin alpha 2 (RAG cohort 1, importin alpha 1) (KPNA2), mRNA /cds=(132,1721)	1	AAGTGTGGTTCCTGAAGGCTGTCTTT
1029	Table 3A	Hs.325093	AK024863	10437271	cDNA: FLJ21210 fis, clone COL00479 /cds=UNKNOWN	1	GTAACCTTTTGTAGTCTTTGTGTG
1030	Table 3A	Hs.306720	AK024890	10437303	cDNA: FLJ21237 fis, clone COL01114 /cds=UNKNOWN	1	AATCCTTTAACTCTGCGGATAGCATT
1031	Table 3A	Hs.135570	AK024921	10437337	cDNA: FLJ21268 fis, clone COL01718 /cds=UNKNOWN	1	TGGTAGGTAGTGATTAAGTGTGAA
1032	Table 3A	Hs.6019	AK024941	10437362	cDNA: FLJ21288 fis, clone COL01927 /cds=UNKNOWN	1	CTGGAAAGGGGCTAAGATCAGGGC
1033	Table 3A	Hs.1279	AK024951	10437374	cDNA: FLJ21298 fis, clone COL02040, highly similar to HSC1R mRNA for complement component C1r /cds=UNKNOWN	1	CTTCATTCTGGATCAGGCGAAATTT
1034	Table 3A	Hs.29977	AK024961	10437386	hypothetical protein FLJ21308 (FLJ21308), mRNA /cds=(287,1792)	1	GTTCTCTTCGGAAGCTTTTGATAA
1035	Table 3A	Hs.166254	AK024969	10437396	hypothetical protein DKFZp566i133 (DKFZP566i133), mRNA /cds=(133,1353)	1	GGAATTTCTACTCTGCAGCATCCTG
						1	TAAATAACATTCAAGTCCACCCT
						1	GAGATGAGTTTTGTTATTTTGGGGTT
						1	TTCAAGCATTGGAACCAAGGCCA
						1	TCACCTAGACCCCTGTAAACAGGTTAA
						1	ATCTTCATGGTGTCTCTGTTTCTTA
						1	GCTCTCCAGACTGTACAGTGCATGA
						1	GTGATAATAAAATGAGTCAGTCA
						1	GGAGGTAACACATTGGAGATGTTTGTG
						1	AAAATATTACTCTTCTGTGAGGT
						1	GGCCCCCTTCTTCTCTGAGGATTG
						1	CAGAGGATATAGTTATCAATCTCT
						1	TCAACAGCACTTAACTGAAGTTTGG
						1	GTTGCTCATACAATAAACAGATTG
						1	GGGCCATTTTATGATGCATTGCACAC
						1	CCTCTGGGGAATTTGATCTTTAA

Table 8

1036	Table 3A	Hs.156110	AK024974	10437403	cDNA: FLJ21321 fis, clone COL02335, highly similar to HSAD10442 mRNA for immunoglobulin kappa light chain /cds=UNKNOWN	1	TTTCCACAGGGGACCTACCCCTATT GCGGTCTCCAGCTCATCTTTTCAC
1037	Table 3A	Hs.323378	AK024976	10437405	coated vesicle membrane protein (RNP24), mRNA /cds=(27,632)	1	GGGTGAGAACACTTGCAACAGTTTAT TAATGAGGTGACTTTACCTTAGG
1038	Table 3A	Hs.21056	AK025019	10437453	cDNA: FLJ21366 fis, clone COL03012, highly similar to AB002445 mRNA from chromosome 5q21-22 /cds=UNKNOWN	1	AATGTACCATCAATAAAATTTGGCTGC TTGGGCAGTTTTAGTTACCACCTT
1039	Table 3A	Hs.337266	AK025021	10437455	RC-BT163-140599-023 cDNA	1	TTTTCAGAGGCTTCTCAATTAATCTTG CCCTCCTCCATTTTCAGTCCATT
1040	Table 3A	Hs.120170	AK025068	10437507	hypothetical protein FLJ21415 (FLJ21415), mRNA /cds=(138,755)	1	AGCTCCAACCTTACGATGGAGAATTA AACTTGCTTGTATTTCCACTTTGT
1041	Table 3A	Hs.288872	AK025092	10437538	mRNA for KIAA1840 protein, partial cds /cds=(71,4384)	1	AGCTTCCTCTTCTCAGGACAGCTTC TACTTTAGATGATCCAATAATGAT
1042	Table 3A	Hs.14555	AK025166	10437628	cDNA: FLJ21513 fis, clone COL05778 /cds=UNKNOWN	1	CACTGACTTCTATTCATGAGCTTTTT CAAGGCGCTTATTTTATGGCAGC
1043	Table 3A	Hs.83623	AK025198	10437682	nuclear receptor subfamily 1, group I, member 3 (NR1I3), mRNA /cds=(272,1318)	1	TGTTTCGTAATAAATAGGTCTGGC- CCAGAAAGACCCACTCAATTGCCTT
1044	Table 3A	Hs.322680	AK025200	10437684	cDNA: FLJ21547 fis, clone COL06206 /cds=UNKNOWN	1	GGAAGACCCCAAGGAAATCCGGAATTT CGCACGAGAGGACCCACACGCTCC
1045	Table 3A	Hs.10888	AK025212	10437679	hypothetical protein FLJ21709 (FLJ21709), mRNA /cds=(55,2316)	1	TCTTTGTTACTTCCAAAGGAGAACCAAG AATGGCTCTGTCACTCAGAACGCC
1046	Table 3A	Hs.288708	AK025215	10437682	hypothetical protein FLJ21562 (FLJ21562), mRNA /cds=(238,2145)	1	TCTTTCTCTAAAGCTTGTTTGATGAAA CTGGTTGGTCTCTTTCAGTGAACA
1047	Table 3A	Hs.337561	AK025269	10437749	hypothetical protein FLJ21616 (FLJ21616), mRNA /cds=(119,1093)	1	GCTGTGTGACTTAGTAGATAAAATAC TGCTTCTGCCTTTGGGACCATGA
1048	Table 3A	Hs.2083	AK025306	10437795	cDNA: FLJ21653 fis, clone COL08586, highly similar to HUMKINCDK protein kinase mRNA /cds=UNKNOWN	1	TCTGTAATTTGGACAGCTCTCTCGAAG AGATCTTACAGACTGTATCAGTCT
1049	Table 3A	Hs.76230	AK025353	10437852	cDNA: FLJ21700 fis, clone COL09849, highly similar to HSU14972 ribosomal protein S10 mRNA /cds=UNKNOWN	1	GGTCGTGGACGTGGTCAGCCACCTC AGTAAATTTGGAGAGGATTCTTTTG
1050	Table 3A	Hs.117268	AK025364	10437886	cDNA: FLJ21711 fis, clone COL10156 /cds=UNKNOWN	1	AAAGTGAACCAAGAGTACAAGAGAC AGGTGAAATTAAGAGCCCTTGA
1051	Table 3A	Hs.5181	AK025367	10437889	proliferation-associated 2G4, 38kD (PA2G4), mRNA /cds=(97,1281)	1	GTCCAGGATGCAGACTCAAGGCCCC TCCTCCAGAGTTCTCAAGTCGAAA
1052	Table 3A	Hs.288061	AK025375	10437878	actin, beta (ACTB), mRNA /cds=(73,1200)	1	CCAACTTGAGATGTATGAAGGCTTTT- GGTCTCCCTGGGAGTGGGTGGAGG
1053	Table 3A	Hs.14040	AK025425	10437933	cDNA: FLJ21772 fis, clone COLF7808 /cds=UNKNOWN	1	TTCTCATCCCATTTACAGTTTCTTA ACTCCAGGGTAGTGTGTTAGTGT
1054	Table 3A	Hs.85963	AK025446	10437961	cDNA: FLJ21793 fis, clone HEP00468 /cds=UNKNOWN	1	CATGCCAAAGACTCAACTGCCTTTCAA AGATAATGTGGGTGCTAGATGCAG
1055	Table 3A	Hs.82689	AK025459	10437979	tumor rejection antigen (gp96) 1 (TRA1), mRNA /cds=(105,2516)	1	TCCCTTCTCCCTGCACTGTAAAT GTGGGATTATGGGTGCAGGAAAA
1056	Table 3A	Hs.289008	AK025467	10437988	cDNA: FLJ21814 fis, clone HEP01068 /cds=UNKNOWN	1	ACCATGCATAGAGTCAATCAATCCT- TGTGATGTTTTGTATGGACTTTGA
1057	Table 3A	Hs.22678	AK025485	10438014	chromosome 10 open reading frame 2 (C10orf2), mRNA /cds=(32,1552)	1	TGTGCTGCCTCAAGACTGCTGGAGTC AGGACATTTTATAGAGCCTTTTCC
1058	Table 3A	Hs.184793	AK025533	10438078	Homo sapiens, clone IMAGE:3885907, mRNA, partial cds /cds=(0,1534)	1	GTGCAGTCTCTTAGCAGCTTCAAGGC CCAACTGTATTCTCACTCAGGC
1059	Table 3A	Hs.121849	AK025556	10438106	microtubule-associated proteins 1A/1B light chain 3 (MAP1A/1BLC3), mRNA /cds=(84,481)	1	GTTAGTGAAAGCTGTTTACTGTAAACG GGGAAAACAGATTCTTGTGACTCT
1060	Table 3A	Hs.110771	AK025557	10438108	cDNA: FLJ21904 fis, clone HEP03585 /cds=UNKNOWN	1	GCTTCTGTAAATGCCATCCCAATGTG GTTTGGTTTTGTTGAACAGAAACC
1061	Table 3A	Hs.82645	AK025583	10438142	cDNA: FLJ21930 fis, clone HEP04301, highly similar to HSU90916 clone 23815 mRNA sequence /cds=UNKNOWN	1	TTGCCTCGATAAGTTTCCAAGTCACT GAAATCTGCTGAAGGTTTTACTGT
1062	Table 3A	Hs.27268	AK025586	10438146	cDNA: FLJ21933 fis, clone HEP04337 /cds=UNKNOWN	1	ACTTCTGAACTGAGGAATTTGCTGTT GACAGCCAAAGTATAGTGTACAAG
1063	Table 3A	Hs.7567	AK025615	10438186	cDNA: FLJ21982 fis, clone HEP05564 /cds=UNKNOWN	1	AGAGCCATCTGGTGTGAAGAATCTTA TATTTGTATGTTGAGAGGGCATGG
1064	Table 3A	Hs.5985	AK025620	10438193	cDNA: FLJ21987 fis, clone HEP05652, highly similar to AF131831 clone 25186 mRNA sequence /cds=UNKNOWN	1	AGAACAAAGTTTGCCTTGATTTTTTA AAATGACTTCTGCTAAGCACCCA
1065	Table 3A	Hs.279901	AK025623	10438197	PTD009 protein (PTD009), mRNA /cds=(257,916)	1	CCTGCCAAAGCAAGAAGAAGGCTTG GTCCCAAGAAACAAAGTAGTCAAT
1066	Table 3A	Hs.339696	AK025643	10438224	ribosomal protein S12 (RPS12), mRNA /cds=(80,478)	1	GGAGTCTCAGGCCAAGGATGTCAAT GAAGAGTATTTCAAATGCAAGAAAT
1067	Table 3A	Hs.339696	AK025643	10438224	ribosomal protein S12 (RPS12), mRNA /cds=(80,478)	1	GGAGTCTCAGGCCAAGGATGTCAAT GAAGAGTATTTCAAATGCAAGAAAT
1068	Table 3A	Hs.334489	AK025645	10438227	hypothetical protein FLJ21992 (FLJ21992), mRNA /cds=(60,845)	1	TTTCACTCTGAATCCAGAGGTGCATCA AATTAATGACAGCTCCACTTGGC

Table 8

1069	Table 3A	Hs.92414	AK025683	10438280	cDNA: FLJ22030 fis, clone HEP08669 /cds=UNKNOWN	1	TTGACACGTTCCACTTCCTTTGCAATT ATTGTATTTAGTTGTGCACTAGT
1070	Table 3A	Hs.173705	AK025703	10438305	cDNA: FLJ22050 fis, clone HEP09454 /cds=UNKNOWN	1	CCAAATCAACTGTGTGAACGTGTTTCT GCACTGCTTGCTAATGGTTTCATC
1071	Table 3A	Hs.13277	AK025707	10438310	hypothetical protein FLJ22054 (FLJ22054), mRNA /cds=(144,956)	1	ATTGAGACGGGAAAACTCGCTGTAA AATAATGCCAACCTAGATAATGGT
1072	Table 3A	Hs.5798	AK025729	10438338	pelota (Drosophila) homolog (PELO), mRNA /cds=(259,1416)	1	TGTTCTTGCAATTGCAATTAATGATCCC TTTTCTCCCCACCTCCACACACT
1073	Table 3A	Hs.184542	AK025730	10438339	CGI-127 protein (LOC51646), mRNA /cds=(125,490)	1	TGCAGATTCTCTAGTAGCATGCCTTAC CTACAGCACTATGTGCATTTGCTG
1074	Table 3A	Hs.75811	AK025732	10438341	N-acylsphingosine amidohydrolase (acid ceramidase) (ASAH), mRNA /cds=(17,1204)	1	GCAAGACCGTTTGTCCACTTCATTTT GTATAATCACAGTTGTGTTCTGGA
1075	Table 3A	Hs.77910	AK025736	10438345	cDNA: FLJ22083 fis, clone HEP14459, highly similar to HUM3H3M 3-hydroxy-3-methylglutaryl coenzyme A synthase mRNA /cds=UNKNOWN	1	AATTTAACTTTTGGGTGCCAGGAAAT GGGTTTTCTCAAAGTCCATTGCCG
1076	Table 3A	Hs.170296	AK025743	10438355	cDNA: FLJ22090 fis, clone HEP16084 /cds=UNKNOWN	1	TCGTGGAAGGGAGAGCCATCAGCAG AAAGAGACCTGAGATCTTCGCCCTG
1077	Table 3A	NA	AK025767	10438384	FLJ22114 fis, clone HEP18441	1	AAACACACCAGGGAGACACCATAAAA CAGACCAAGACTAACTTAAAAACA
1078	Table 3A	Hs.34497	AK025769	10438386	hypothetical protein FLJ22116 (FLJ22116), mRNA /cds=(270,3545)	1	AACCACAATCAAACATATAAATAAGC CTGGAAAAACCACTACAACCAGCA
1079	Table 3A	Hs.5822	AK025773	10438391	cDNA: FLJ22120 fis, clone HEP18874 /cds=UNKNOWN	1	TTTCTGATTATTTGATGCTAGCTGG AATTCAAGAAATGGCATTGACCTT
1080	Table 3A	Hs.264190	AK025774	10438392	cDNA: FLJ22121 fis, clone HEP18876, highly similar to AF191298 vacuolar sorting protein 35 (VPS35) mRNA /cds=UNKNOWN	1	TCACCCCAAGTAGCATGACTGATCTG CAATTTAAATTCCTGTGATCTGT
1081	Table 3A	Hs.12245	AK025775	10438393	cDNA: FLJ22122 fis, clone HEP19214 /cds=UNKNOWN	1	TGAGAAGTGCGGAATAGGTTGCTTCT ACCACCTGTTCTTAATGTAACAGT
1082	Table 3A	Hs.26367	AK025778	10438396	PC3-96 protein (PC3-96), mRNA /cds=(119,586)	1	TCGAATGAGTGCTGAGGTAGTCTTAA AGAGCCTCATGTTAAATAGACACA
1083	Table 3A	Hs.285833	AK025788	10438408	cDNA: FLJ22135 fis, clone HEP20858 /cds=UNKNOWN	1	TGAAGTGCAAAATAAAGCACTGCTAC TATAAGACATTTCTGGAATGGTTGT
1084	Table 3A	Hs.90421	AK025800	10438421	cDNA: FLJ22147 fis, clone HEP22163, highly similar to AF113020 clone FLB9138 mRNA sequence /cds=UNKNOWN	1	GCAGTCCCCAGATCCAGAACATGGG AAGTTAGGGAATGTGTGATTTTG
1085	Table 3A	Hs.289721	AK025846	10438485	cDNA: FLJ22193 fis, clone HRC01108 /cds=UNKNOWN	1	AGGTATGACAGGAAGTGTCTTCATGT CCTTACCCAAGCAAGTCATCCATG
1086	Table 3A	Hs.286194	AK025886	10438538	hypothetical protein FLJ22233 (FLJ22233), mRNA /cds=(35,1204)	1	AATTTTGAATTTCTCTTGCCACGTTA ATAAAGCCAAAAGCAGCGGGCTC
1087	Table 3A	Hs.279921	AK025927	10438592	HSPC035 protein (LOC51669), mRNA /cds=(16,1035)	1	TGACTCTGTGCTGGCAAAATGCTTG AAACCTCTATATTTCTTTCGTTCA
1088	Table 3A	Hs.105664	AK025947	10438619	hypothetical protein FLJ22294 (FLJ22294), mRNA /cds=(240,602)	1	GCTCTCCACAGAAACCTTTGTCTCT GCAACTTTATCCTTTGTCCCGATT
1089	Table 3A	Hs.55024	AK026024	10438731	hypothetical protein FLJ10307 (FLJ10307), mRNA /cds=(28,462)	1	TTGCCTTAGCCAGTGTACCTCCTACC TCAGTCTATGTGAGAGGAAGAGAA
1090	Table 3A	Hs.289092	AK026033	10438744	Homo sapiens, coactosin-like protein, clone MGC:19733 IMAGE:3604770, mRNA, complete cds /cds=(158,586)	1	ACTGTATTGGGATTGTAAAGAACATC TCTGCACTCAGACAGTTTACAGAA
1091	Table 3A	Hs.288555	AK026078	10438812	cDNA: FLJ22425 fis, clone HRC08686	1	GTGTGTGTGCATGTGTGTGTAGCAG AGGTATTTTACTCAGAAAAATAGGT
1092	Table 3A	Hs.333500	AK026091	10438829	cDNA: FLJ22438 fis, clone HRC09232, highly similar to AF093250 P38IP (P38IP) mRNA /cds=UNKNOWN	1	GCCAGTCAAAAAGTAAATGAAGAGA GGCAGCCAAACCACTCCAAAATTT
1093	Table 3A	Hs.238707	AK026110	10438854	hypothetical protein FLJ22457 (FLJ22457), mRNA /cds=(56,1462)	1	CACCTTTGTGGTCGAAAGGCTCAGCCT CTCTACATGAAGTCTGTGGACATG
1094	Table 3A	Hs.77385	AK026164	10438926	cDNA: FLJ22511 fis, clone HRC11837, highly similar to HUMMYLCB non-muscle myosin alkali light chain mRNA /cds=UNKNOWN	1	AGGCTTTCTTGCTCAGCAACTTTCC CATCTTGTCTCTTGGATGATGT
1095	Table 3A	Hs.13179	AK026239	10439028	cDNA: FLJ22586 fis, clone HSI02774 /cds=UNKNOWN	1	TTTTTCTTTTTGAAGCATGAAAAACAA ATCTTTATGCCACTCCAGCCAT
1096	Table 3A	Hs.27774	AK026264	10439063	602386841F1 cDNA, 5' end /clone=IMAGE:4515730 /clone_end=5'	1	CCATGATATAAGGAAGGCCGTGCC TCATGGAAAAGCAACAGGTGGCCTC
1097	Table 3A	Hs.297666	AK026270	10439073	cDNA: FLJ22617 fis, clone HSI05379, highly similar to HSEWS EWS mRNA /cds=UNKNOWN	1	TAAAGGCGAGCACCGTCAGGAGCGC AGAGATCGGCCCTACTAGATGCAGA
1098	Table 3A	Hs.31137	AK026334	10439167	protein tyrosine phosphatase, receptor type, E (PTPRE), mRNA /cds=(51,2153)	1	TGAGCCTGACACCTGTGTTTCAGCAT TTGGAGACATCCCCATGTTATTCT
1099	Table 3A	Hs.236744	AK026359	10439200	cDNA: FLJ22706 fis, clone HSI13163 /cds=UNKNOWN	1	CTGAGCCACATCCAAGCCTGGTTTGC TGCACCTATTGCCAAAGACTGAC

Table 8

1100	Table 3A	Hs.268936	AK026363	10439205	mitochondrial ribosomal protein L9 (MRPL9), mRNA /cds=(14,817)	1	ACTTGCCCTCATTCTCATCATCCAAACT GAACATTTGTATGCCAAGCAGAA
1101	Table 3A	Hs.143631	AK026372	10439218	cDNA: FLJ22743 fis, clone HSI14307 /cds=UNKNOWN	1	GTATGAAGAAGGAAGCCAGCAGAG CAGGAGGCAGCAGCAACAATGAGAG
1102	Table 3A	Hs.157240	AK026394	10439245	hypothetical protein MGC4737 (MGC4737), mRNA /cds=(2350,2985)	1	CTGTGTGTGTCCATGTCTGCAAGCAG TTCCTCAATAAATGGCGTGCCTCC
1103	Table 3A	Hs.112497	AK026396	10439247	cDNA: FLJ22743 fis, clone HUV00901 /cds=UNKNOWN	1	TCAAAGCAGAGCAGAGAGTATTTGG TGTTTGCTGAAGACAGCCTTTGTG
1104	Table 3A	Hs.236449	AK026410	10439266	hypothetical protein FLJ22757 (FLJ22757), mRNA /cds=(92,2473)	1	ACTTCCATCTCAGCTAATGCACCCAC CAGCTCAAAACACCAATAAAGCT
1105	Table 3A	Hs.89555	AK026432	10439295	hemopoietic cell kinase (HCK), mRNA /cds=(168,1685)	1	TGCAATCCACAATCTGACATTCTCAG GAAGCCCCCAAGTTGATATTTCTA
1106	Table 3A	Hs.343522	AK026443	10439309	ATPase, Ca++ transporting, plasma membrane 4 (ATP2B4), mRNA /cds=(397,4014)	1	CAGAAACCAATACTGCTGTGCACTGA GAATAAAACTCATGCCCCCTTGT
1107	Table 3A	Hs.32148	AK026455	10439325	AD-015 protein (LOC55829), mRNA /cds=(30,644)	1	CACCACTGAGGATTACTGATGTGGAC AGTTGATGGGGTTTGTCTCTGTAT
1108	Table 3A	Hs.75415	AK026463	10439333	cDNA: FLJ22810 fis, clone KAlA2933, highly similar to AB021288 mRNA for beta 2-microglobulin /cds=UNKNOWN	1	AAAGTAAGGCATGGTTGTGGTTAATC TGGTTATTTTGTTCACAAGTT
1109	Table 3A	Hs.118183	AK026486	10439358	hypothetical protein FLJ22833 (FLJ22833), mRNA /cds=(479,883)	1	TAAGGGGTAGACAAGATACCGAATAA TCTCCACAAGTTTATTTGTGGTCT
1110	Table 3A	Hs.182979	AK026491	10439364	cDNA: FLJ22838 fis, clone KAlA4494, highly similar to HUM12A ribosomal protein L12 mRNA /cds=UNKNOWN	1	ACATCAACAGTGGTGTGTGGAATGC CCAGCCAGTTAAGCACAAGGAAA
1111	Table 3A	Hs.2795	AK026515	10439391	lactate dehydrogenase A (LDHA), mRNA /cds=(97,1095)	1	ACAAACAATGCAACCAATATCCAAG TGTTATACCAACTAAAACCCCAA
1112	Table 3A	Hs.334807	AK026528	10439405	Homo sapiens, ribosomal protein L30, clone MGC-2797, mRNA, complete cds /cds=(29,376)	1	TTCACCTACAAAATTCACCTGCAAA CCTTAAACCTGCAAAATTTTCCT
1113	Table 3A	Hs.239307	AK026535	10439414	tyrosyl-tRNA synthetase (YARS), mRNA /cds=(0,1586)	1	GGGTACTTCTCCATAAGGCATCTCAG TCAAATCCCCATCACTGTCATAAA
1114	Table 3A	Hs.251653	AK026594	10439481	tubulin, beta, 2 (TUBB2), mRNA /cds=(0,1337)	1	CTTGCTGTTTTCCTGTGCCACATCCA TCTGTACAGACACCACCATTTGAA
1115	Table 3A	Hs.277477	AK026595	10439482	major histocompatibility complex, class I, C (HLA-C), mRNA /cds=(0,1100)	1	AAGTCAATTCTGGAATTTGAAGAG CAATAAAGACCTGAGAACCTTCC
1116	Table 3A	Hs.334729	AK026603	10439492	cDNA FLJ20161 fis, clone COL09252, highly similar to L33930 CD24 signal transducer mRNA /cds=UNKNOWN	1	AAGCTACTGTGTGTGTAATGAACAC TCTTGCTTTATTCAGAATGCTGT
1117	Table 3A	Hs.334842	AK026632	10439528	tubulin, alpha, ubiquitous (K-ALPHA-1), mRNA /cds=(67,1422)	1	TGTCATGCTCCAGAAATTCAGCTTC AGCTTAAGTACAGATGTTAAAGC
1118	Table 3A	Hs.179666	AK026642	10439539	uncharacterized hypothalamus protein HSMNP1 (HSMNP1), mRNA /cds=(231,1018)	1	AGGTGGTACTCAAGCATGCTGCCTC CTTACATCCTTTTGAACAGAGC
1119	Table 3A	Hs.288036	AK026650	10439548	tRNA isopentenylpyrophosphate transferase (IPT), mRNA /cds=(60,1040)	1	TGCATCGTAAACCTTCAGAAGGAAA GGAGATGTTTTTGTGGACCATTT
1120	Table 3A	Hs.301404	AK026664	10439564	RNA binding motif protein 3 (RBM3), mRNA /cds=(276,749)	1	TGTGGTTAGGAAGCAATTTCCCAATG TACCTATAAGAAATGTGCATCAAG
1121	Table 3A	Hs.266940	AK026669	10439570	cDNA: FLJ23016 fis, clone LNG00874 /cds=UNKNOWN	1	GCCTGCGTTGCCACTTGTCTAACTC TGAATATTTCAATTTCAAAGGTGCT
1122	Table 3A	Hs.288468	JU00944	405046	clone A9A2BRB6 (CAC)n(GTG)n repeat-containing mRNA /cds=UNKNOWN	1	AGCTAATATTGCTGAATGGCTGGCA GGAAACAGGTGATCAAGAGTGTC
1123	Table 3A	Hs.242868	AK026704	10439618	cDNA: FLJ23051 fis, clone LNG02642 /cds=UNKNOWN	1	TCGACCCAGAGGTGAATGTATTGTT ATTATTGTTTGTGTTGTTGTGA
1124	Table 3A	Hs.334861	AK026712	10439629	hypothetical protein FLJ23059 (FLJ23059), mRNA /cds=(41,1681)	1	TCCTTGGCAGCTGTATTCTGGAGTCT GGATGTGCTCTCAAGACCTTT
1125	Table 3A	Hs.12969	AK026747	10439670	cDNA: FLJ23094 fis, clone LNG07379, highly similar to HST000007 mRNA full length insert cDNA clone EUROIMAGE 283605 /cds=UNKNOWN	1	TTTGCCATGTCCAGTACAGAATAATTT GTACTTAGTATTTGCAGCAGGGT
1126	Table 3A	Hs.90077	AK026766	10439693	TGFB-induced factor (TALE family homeobox) (TGIF), mRNA /cds=(311,1129)	1	TAGAGAACCTATAGCATCTTCTCATT CCCATGTGGAACAGGATGCCACA
1127	Table 3A	Hs.287725	AK026769	10439697	cDNA: FLJ23118 fis, clone LNG07945, highly similar to HSU79240 serine/threonine kinase mRNA /cds=UNKNOWN	1	AACTCATGTGCAGGTTTGATAAACAC CAGAACAGAGACAGTATGCTGT
1128	Table 3A	Hs.124292	AK026776	10439707	cDNA: FLJ23123 fis, clone LNG08039 /cds=UNKNOWN	1	TGGCCCTGACAGTATTCATTATTTCA GATAATTCCTGTGATAGGACAAAC
1129	Table 3A	Hs.20242	AK026819	10439764	hypothetical protein FLJ12788 (FLJ12788), mRNA /cds=(9,866)	1	ACCTGGAGAGAGAGGATTTGAAACA TCTCCTTTATGTGTGACTTTCCCA
1130	Table 3A	Hs.287895	AK026834	10439781	cDNA: FLJ23181 fis, clone LNG11094 /cds=UNKNOWN	1	AGAAATACCCACTAACAAAGAACAG CATTAGTTTGGCTGTCACTCACT



Table 8

1131	Table 3A	Hs.324080	AK026836	10439784	hypothetical protein FLJ23183 (FLJ23183), mRNA /cds=(226,732)	1	ATGGGCAAATTCCTAGGTAAGACAAA
1132	Table 3A	Hs.6906	AK026850	10439805	cDNA: FLJ23197 fis, clone REC00917 /cds=UNKNOWN	1	AACACAGCCCCAAGGGCAGGTTAGT
1133	Table 3A	Hs.288455	AK026923	10439895	cDNA: FLJ23270 fis, clone COL10309, highly similar to HSU33271 normal keratinocyte mRNA /cds=UNKNOWN	1	GCTGATGCCACTACCCGATTGTGTTA
1134	Table 3A	Hs.286236	AK026933	10439907	mRNA for KIAA1856 protein, partial cds /cds=(0,3404)	1	TTTGCAATTTGAGCCATTTAAAGA
1135	Table 3A	Hs.91065	AK026954	10439935	cDNA: FLJ23301 fis, clone HEP11120 /cds=(2,1888)	1	CCTGTTCCCTTCAGCCAACCCGTTTC
1136	Table 3A	Hs.88044	AK026960	10439945	cDNA: FLJ23307 fis, clone HEP11549, highly similar to AF041037 novel antagonist of FGF signaling (sprouty-1) mRNA /cds=UNKNOWN	1	TGCAGTAAATTAAGCCTGTCAAA
1137	Table 3A	Hs.298442	AK026983	10439978	adaptor-related protein complex 3, mu 1 subunit (AP3M1), mRNA /cds=(69,1325)	1	TGGCTTAAACCAAGTGTTCAGTCTGGT
1138	Table 3A	Hs.301732	AK027016	10440025	hypothetical protein MGC5306 (MGC5306), mRNA /cds=(206,1042)	1	GCCAACTTCGAATGGAATACAAA
1139	Table 3A	Hs.3382	AK027064	10440089	protein phosphatase 4, regulatory subunit 1 (PPP4R1), mRNA /cds=(93,2894)	1	TGTGAGTTGTGACCATGTAAACATGAG
1140	Table 3A	Hs.85567	AK027087	10440093	suppressor of variegation 3-9 (Drosophila) homolog 2, hypothetical (SUV39H2), mRNA /cds=(37,1089)	1	AGGTTTTGCTAGGGCCTATTATTT
1141	Table 3A	Hs.48320	AK027070	10440098	mRNA for ring-IBR-ring domain containing protein Dorfin, complete cds /cds=(317,2833)	1	AGCTGAGTAATTCCTAATCTCTCTGT
1142	Table 3A	Hs.115659	AK027114	10440156	hypothetical protein MGC5521 (MGC5521), mRNA /cds=(183,708)	1	GTTTCCTTGCCTTAACCAAAAT
1143	Table 3A	Hs.113205	AK027138	10440188	cDNA: FLJ23483 fis, clone KIA04052 /cds=UNKNOWN	1	AATTTGCTAGAATCCAGTAAATCATT
1144	Table 3A	Hs.289071	AK027187	10440255	cDNA: FLJ22245 fis, clone HRC02612 /cds=UNKNOWN	1	TGGTAGCTCTGGCTGTGCTATCA
1145	Table 3A	Hs.240443	AK027191	10440260	cDNA: FLJ23538 fis, clone LNG08010, highly similar to BETA2 MEN1 region clone epsilon/beta mRNA /cds=UNKNOWN	1	TGGCTCGAAGTTTCTCTAGTGTITTC
1146	Table 3A	Hs.323502	AK027192	10440281	nuclear RNA export factor 1 (NXF1), mRNA /cds=(0,1679)	1	TGTGGAAGGAATAAAATTTGAGT
1147	Table 3A	Hs.159483	AK027194	10440263	chromosome 1 open reading frame 7 (C1orf7), mRNA /cds=(46,1590)	1	ACTCTTGGGAGTGCTGCAGCTTTAA
1148	Table 3A	Hs.334853	AK027197	10440266	hypothetical protein FLJ23544 (FLJ23544), mRNA /cds=(125,517)	1	TCATGCTGTTAAACTGTTGTGGC
1149	Table 3A	Hs.91448	AK027210	10440285	MKP-1 like protein tyrosine phosphatase (MKP-L), mRNA /cds=(233,829)	1	TTTACATGATTGGACCTCAGATTCT
1150	Table 3A	Hs.169854	AK027212	10440288	hypothetical protein SP192 (SP192), mRNA /cds=(179,1603)	1	GTTAACCAAAATTGCGAATGGGG
1151	Table 3A	Hs.57209	AK027232	10440314	hypothetical protein DKFZP566J091 (DKFZP566J091), mRNA /cds=(212,529)	1	TGAAATCAAAGCACGGTGCGAACTT
1152	Table 3A	Hs.54890	AK027243	10440328	cDNA FLJ14739 fis, clone NT2RP3002402 /cds=(156,2048)	1	GTACCAAGTACAAAAGGTCATGT
1153	Table 3A	Hs.279040	AK027258	10440392	HT001 protein (HT001), mRNA /cds=(241,1203)	1	CCTTACTCTGTCTTGATGGAGGGGA
1154	Table 3A	Hs.279040	AK027258	10440392	HT001 protein (HT001), mRNA /cds=(241,1203)	1	GAAGGGAGGGCAAAGAAAGTTAAAT
1155	Table 3A	Hs.152925	AK027260	10440394	mRNA for KIAA1268 protein, partial cds /cds=(0,3071)	1	CACCGCAATGCAACTCCATGCCTATT
1156	Table 3A	Hs.183454	AK027789	14042727	cDNA FLJ14883 fis, clone PLACE1003596, moderately similar to OLIGOSACCHARYL TRANSFERASE STT3 SUBUNIT /cds=(2,862)	1	TACTGGAAACCTGTTATGCCAAAC
1157	Table 3A	Hs.122487	AL040371	5409324	602365288F1 cDNA, 5' end /clone=IMAGE:4473838 /clone_end=5'	1	CAAGAGAAATGAAGGAGGCTAAGGAG
1158	Table 3A	Hs.79709	AL042370	5421708	phosphatidylinositol transfer protein (PITPN), mRNA /cds=(216,1028)	1	AAGCGCCAGGAACAAATTGCGAAGA
1159	Table 3A	Hs.252721	AL042376	5421714	602022214F1 cDNA, 5' end /clone=IMAGE:4157715 /clone_end=5'	1	AGTCTCGGGTATGCTGTTGTGAAATT
1160	Table 3A	Hs.182278	AL046016	5434110	Homo sapiens, calmodulin 2 (phosphorylase kinase, delta), clone MGC:1447 IMAGE:3504793, mRNA, complete cds /cds=(93,542)	1	GAAACTGTAAAAGTAGATGGTTGA



Table 8

1161	Table 3A	NA	AL047171	5936355	(synonym: hute1) cDNA clone DKFZp586F2018 5'	1	TTGGTCCCACAGTTTTATGTGTCTCT
1162	Table 3A	Hs.188757	AL049282	4500041	Homo sapiens, clone MGC:5564, mRNA, complete cds /cds=(227,304)	1	ACTTGAAATTATGTTTGTCTCCCGT
1163	Table 3A	Hs.104916	AL049305	4500074	hypothetical protein FLJ21940 (FLJ21940), mRNA /cds=(92,2107)	1	TGGAGGATTTTTGTAAAGTCAAGTGT
1164	Table 3A	Hs.99821	AL049319	4500092	hypothetical protein FLJ14547 (FLJ14547), mRNA /cds=(25,711)	1	CAATCGAAGTTAAAAAGCAAGGGT
1165	Table 3A	Hs.77311	AL049332	4500108	mRNA; cDNA DKFZp564L176 (from clone DKFZp564L176) /cds=UNKNOWN	1	ATGGCTCTTTTCTATTAGAGCAACTT
1166	Table 3A	Hs.86405	AL049340	4500124	mRNA; cDNA DKFZp564P056 (from clone DKFZp564P056) /cds=UNKNOWN	1	GTGTTTCCCTGATAATGTGTACA
1167	Table 3A	Hs.42915	AL049356	4500146	ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA /cds=(74,1258)	1	GTCGTGACTGACTTGGTGTGTGCTA
1168	Table 3A	Hs.184938	AL049782	4902604	Novel gene mapping to chromosome 13 /cds=UNKNOWN	1	TTGTGTTTCTATATACTCCGTCCA
1169	Table 3A	Hs.326248	AK025724	10438333	cDNA: FLJ22071 fls, clone HEP11691 /cds=UNKNOWN	1	TTAGTCCAGTGGTTTCCACAGCTGG
1170	Table 3A	Hs.139240	AL049942	4884185	mRNA; cDNA DKFZp564F1422 (from clone DKFZp564F1422) /cds=(0,1491)	1	CTAAGCCAGGAGTCACTTGGAGGC
1171	Table 3A	Hs.22370	AL049951	4884198	mRNA; cDNA DKFZp564O0122 (from clone DKFZp564O0122) /cds=UNKNOWN	1	TGGAAGACAGTAAGAAGACGCCCTCT
1172	Table 3A	Hs.150580	AL050005	4884260	mRNA; cDNA DKFZp564A153 (from clone DKFZp564A153) /cds=UNKNOWN	1	GTAGTCAGTAAAGTTTACCTTCT
1173	Table 3A	Hs.14848	AL050021	4884264	mRNA; cDNA DKFZp564D018 (from clone DKFZp564D018) /cds=UNKNOWN	1	TGGGTGGAGTATTATGTTTAACTGGA
1174	Table 3A	Hs.133130	AL050035	4884276	mRNA; cDNA DKFZp566H0124 (from clone DKFZp566H0124) /cds=UNKNOWN	1	GTTGTCAAAGTATGAGTCCCTCAGG
1175	Table 3A	Hs.27371	AL050061	4884292	mRNA; cDNA DKFZp566J123 (from clone DKFZp566J123) /cds=UNKNOWN	1	AAAGTAGTAAATCGGGCTGTCTTAAT
1176	Table 3A	Hs.227429	AL050131	4884338	mRNA; cDNA DKFZp586I111 (from clone DKFZp586I111); partial cds /cds=(0,617)	1	AGTGCGCCTGTTACTAATGGAATT
1177	Table 3A	Hs.323463	AL050141	4884352	mRNA for KIAA1693 protein, partial cds /cds=(0,2707)	1	ATGTCAAGCTTTGGGTCTCTGAGTA
1178	Table 3A	Hs.323463	AL050141	4884352	mRNA for KIAA1693 protein, partial cds /cds=(0,2707)	1	TAACTTTTGTACATTAGCCATT
1179	Table 3A	Hs.26295	AL050166	4884381	mRNA; cDNA DKFZp586D1122 (from clone DKFZp586D1122) /cds=UNKNOWN	1	ATCTAGGACACCTCCATCAACCTCC
1180	Table 3A	Hs.80285	AL050192	4884408	mRNA; cDNA DKFZp586C1723 (from clone DKFZp586C1723) /cds=UNKNOWN	1	TCTTGCACTTCCCTCTGGCTTCC
1181	Table 3A	Hs.26613	AL050205	4884444	mRNA; cDNA DKFZp586F1323 (from clone DKFZp586F1323) /cds=UNKNOWN	1	TGTGATGGGAACAGTGTCTTAGGGA
1182	Table 3A	Hs.15020	AL050218	4884459	DNA sequence from clone 51J12 on chromosome 6q26-27. Contains the 3' part of the alternatively spliced gene for the orthologs of mouse QKI-7 and QKI-7B (KH Domain RNA Binding proteins) and zebrafish ZKQ-1 (Quaking protein homolog). Contains ESTs, STSs and GSSs /cds=(0,692)	1	GATGCAAGTCTGGACTTGGCAATAAT
1183	Table 3A	Hs.3642	AL050268	4886442	RAB1, member RAS oncogene family (RAB1), mRNA /cds=(50,687)	1	AGAATGGGAGGCCAACCTTCTATCAG
1184	Table 3A	Hs.12305	AL050272	4886498	DKFZp566B183 protein (DKFZp566B183), mRNA /cds=(351,749)	1	AGTTAAACTTTTGACAAGGGAACA
1185	Table 3A	Hs.274170	AL050353	4914574	mRNA; cDNA DKFZp564C0482 (from clone DKFZp564C0482) /cds=UNKNOWN	1	AAAAATGTGAAACTGCCCTGCCTCCC
1186	Table 3A	Hs.8128	AL050371	4914606	phosphatidylserine decarboxylase (PISD), mRNA /cds=(223,1350)	1	CCTTTTGCTGACACACCTGTGTAC
1187	Table 3A	Hs.322645	AL050376	4914609	mRNA; cDNA DKFZp586J101 (from clone DKFZp586J101) /cds=UNKNOWN	1	GGCCCCATTACAAAACTCCTTAGGAA
1188	Table 3A	Hs.322645	AL050376	4914609	mRNA; cDNA DKFZp586J101 (from clone DKFZp586J101) /cds=UNKNOWN	1	CCTCGCCCTCTCTGCTGTAAAGG
1189	Table 3A	Hs.321247	AL050391	4914591	mRNA; cDNA DKFZp586A181 (from clone DKFZp586A181); partial cds /cds=(0,314)	1	GCTGCTGTCTAGATTATGTGTGCTC
						1	TGACAAGAAATGTTTTGTGTAACA
						1	CCAGGCTGCGGTGAGAATGCCAAGA
						1	AGGCACTACCTCCCACCCACATCAC
						1	CCAGTTGTCTTGAACAGCCTGACTCC
						1	TGCCAGCCCTATGGAAGTTCCTTT
						1	CCAGTTGTCTTGAACAGCCTGACTCC
						1	TGCCAGCCCTATGGAAGTTCCTTT
						1	TCTTTAAGAAGACACCCACATGAAT
						1	ACCCCTTCTATCAGCTCGCTCTG
						1	TTTGACTTTCAGGATGTCATACTACTT
						1	CTGTACCTAGCATTTTCAGTCCT
						1	TGCTTAGATTGTTCCTGTTGTCAAAA
						1	CTGTTACCCCCAAAATTGGTGTG
						1	AACAAGGTACATGCATTATGTGTCAC
						1	ATTACTGGGCAAACTGTCAAGTA
						1	AGCACAAGCAGTGTCTGTCACTTTCC
						1	ATGCATAAAGTTTAGTGAGATGTT
						1	AGTGACTAAATACTGGGAACCTATTT
						1	TCTCAATCTTCTCCATGTTGTGT
						1	CTTCAGGACTGTATGAGCCGAGCAGT
						1	TACAAGACACAAGAAGTTAAAAA
						1	AGGGCCAGATTTCATGTTGACCCTGG
						1	GGATGCTGTGAATTTCTCCTGCGAG
						1	AAATGCAGGTTTATTATCCAGCACTG
						1	AGAGAGTTAACAAGGACTGGA AAA
						1	AAATGCAGGTTTATTATCCAGCACTG
						1	AGAGAGTTAACAAGGACTGGA AAA
						1	CCCTCCTTAATCAACTTCAAGGAGCA
						1	CCTTCATTAGTACAGCTTGCATAT

Table 8

1190	Table 3A	Hs.12813	AL080156	5262614	mRNA; cDNA DKFZp434J214 (from clone DKFZp434J214); partial cds /cds=(0,1081)	1	AAACCAGTGACTCCTAATCTTTTCAA GTTAAGACACCTTACCATTGCTT
1191	Table 3A	Hs.52792	AL080213	5262703	mRNA; cDNA DKFZp586I1823 (from clone DKFZp586I1823) /cds=UNKNOWN	1	AAGGGAACACAAAAGTGTGGCTCGA CAATACTAATTCTACCCGTTTCA
1192	Table 3A	Hs.111801	AL096723	5419856	mRNA; cDNA DKFZp564H2023 (from clone DKFZp564H2023) /cds=UNKNOWN	1	TTTTGTACGATCAGCCTTACTGCTAA TAAAAGCACTTCCACAGGGAAAA
1193	Table 3A	Hs.306327	AL096752	5419888	mRNA; cDNA DKFZp434A012 (from clone DKFZp434A012) /cds=UNKNOWN	1	AAATTCTACAAAGGAGAGGTTGGGCG TTACAAAGGCATTGTGAATCTAAT
1194	Table 3A	Hs.306327	AL096752	5419888	mRNA; cDNA DKFZp434A012 (from clone DKFZp434A012) /cds=UNKNOWN	1	AAATTCTACAAAGGAGAGGTTGGGCG TTACAAAGGCATTGTGAATCTAAT
1195	Table 3A	Hs.172803	AL109669	5689801	mRNA full length insert cDNA clone EUROMIMAGE 31839 /cds=UNKNOWN	1	TTCACCGAGGACATGAAACTCCACCT TCGGGGGATAAAGAGAGAAAAACA
1196	Table 3A	Hs.119155	AL109786	5725475	mRNA full length insert cDNA clone EUROMIMAGE 814975 /cds=UNKNOWN	1	TGTGCTCTTCAGTAGAGGATTTCTG TGATCCTACAATGAAGGGAAAGCT
1197	Table 3A	Hs.75875	AL110132	5817027	ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1), transcript variant 2, mRNA /cds=(69,734)	1	TTTGTGTAACCACCTTTTGAAGCA GCAACTATCAAGCTGAAAAGCAA
1198	Table 3A	Hs.128797	AL110151	5817052	mRNA; cDNA DKFZp586D0824 (from clone DKFZp586D0824); partial cds /cds=(0,1080)	1	AGTGGGTGAATCACAGTAATTTCCCT GTAAATGTGGTACCTGAAGTCAT
1199	Table 3A	Hs.193700	AL110164	5817069	cDNA: FLJ22008 fis, clone HEP06934 /cds=UNKNOWN	1	TAGGCTCATAGCCTTGTATTTCTGTTT AGATTGTAAGCTCAATGGCAGGG
1200	Table 3A	Hs.73851	AL110183	5817095	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F6 (ATP5J), mRNA /cds=(1,327)	1	GCTCAAGCAATGTTTGGTAAATGCAG ACATGAATACATTTCCACCTTCA
1201	Table 3A	Hs.172089	AL110202	5817121	mRNA; cDNA DKFZp586I2022 (from clone DKFZp586I2022) /cds=UNKNOWN	1	AAGTCATCATTTGCCCTTGAAGTTTC CTCTGCATTTGGTTTGAAGTAGTT
1202	Table 3A	Hs.193784	AL110204	5817123	mRNA; cDNA DKFZp586K1922 (from clone DKFZp586K1922) /cds=UNKNOWN	1	GAGCAGGGGTGGGAGTGGCTGTAAC TTCACAATCCTAATACAGTAAATGT
1203	Table 3A	Hs.321022	AL110238	5817178	mRNA; cDNA DKFZp566P1124 (from clone DKFZp566P1124) /cds=UNKNOWN	1	TTCTTAAGGAGCTTAACTCGGTACT TGGGTTAAGCCCAAGTAATCTTT
1204	Table 3A	Hs.187991	AL110269	5817043	DKFZP564A122 protein (DKFZP564A122), mRNA /cds=(2570,2908)	1	TTGGTGAGTTGCCAAGAAGCAATAC AGCATATCTGCTTTTGCCTTCTGT
1205	Table 3A	Hs.109727	AL117407	5911992	mRNA; cDNA DKFZp434D2050 (from clone DKFZp434D2050); partial cds /cds=(110,1720)	1	AGGCCTTGTTTTTTCAGCTTCACTGCG AGTCTATGTGAAGATTGATAAAT
1206	Table 3A	Hs.26797	AL117448	5911896	mRNA; cDNA DKFZp586B1417 (from clone DKFZp586B1417); partial cds /cds=(0,3876)	1	TGCAACTTAGAACCAGCTACAGTAT GGCCCACTTAATAAAACACCTGAA
1207	Table 3A	Hs.7200	AL117502	5912009	hypothetical protein MGC16714 (MGC16714), mRNA /cds=(394,990)	1	AGTTTATTGTTAGCCAGGTTGCTTGA AAGGTTGAGAGTGGAGTGGTTTGG
1208	Table 3A	Hs.22583	AL117513	5912025	mRNA; cDNA DKFZp434K2235 (from clone DKFZp434K2235); partial cds /cds=(0,1086)	1	GCATAACTGCTCTAGCTTCTTGTTA CCATAGTACTGTGGCTTCAGATTT
1209	Table 3A	Hs.303154	AL117536	5912065	popeye protein 3 (POP3), mRNA /cds=(147,1022)	1	TGTATCTTTTCTGTAAACACACAGA CCCCTCCCCAATCTGGACATTGA
1210	Table 3A	Hs.6607	AL117565	5912115	URAX1 mRNA, complete cds /cds=(191,1860)	1	GCCTTGCCAGCCTGTGTGCTTGTGG GAACACCTTGTACCTGAGCTTACAG
1211	Table 3A	Hs.154320	AL117568	5912116	ubiquitin-activating enzyme E1C (homologous to yeast UBA3) (UBE1C), mRNA /cds=(0,1328)	1	GCATGAATGGGCAATATTTTCACTGT TTTACTTGTAGTGCCATAGAGGCC
1212	Table 3A	Hs.4055	AL117595	5912159	mRNA; cDNA DKFZp564C2063 (from clone DKFZp564C2063) /cds=UNKNOWN	1	GGCCTTCTATGTGCTTAGCCATAACA ATTCCATTAAAGCAAGAAGGTAAGC
1213	Table 3A	Hs.180777	AL117621	5912202	mRNA; cDNA DKFZp564M0264 (from clone DKFZp564M0264) /cds=UNKNOWN	1	AATTGAACAATAACCATTGGTGACTG GAGCAGGTAATTATAGCTGCAGA
1214	Table 3A	Hs.87794	AL117637	5912225	mRNA; cDNA DKFZp434I225 (from clone DKFZp434I225); partial cds /cds=(0,1281)	1	AGGGGTCCCAAGAGCCTGTCTCTTT TGTTCAAAATACATCTTGAACGT
1215	Table 3A	Hs.79709	AL117644	5912234	phosphatidylinositol transfer protein (PITPN), mRNA /cds=(216,1028)	1	CCTGCTGGGACTCCCTGACTTACTTT GTTGGTTCTAGTGCTACTTGT
1216	Table 3A	NA	AL120453	5926352	(synonym: hamy2) cDNA clone DKFZp76I208 5'	1	GGAAAGCTCGTCAGTTTGTAGGCTC CGAAATAGAAATAGCAGTTGTCACT
1217	Table 3A	Hs.6986	AL121406	5927407	glucose transporter pseudogene /cds=UNKNOWN	1	AGAAGGTAACCTTTATAGAAGTAACAC CAATATCCTAGTCTGCTTGCCCCG
1218	Table 3A	Hs.274481	AL121735	6012990	cellular growth-regulating protein (LOC51038), mRNA /cds=(612,785)	1	GCTGCTCCCTGGTTCCACTCTGGAGA GTAATCTGGGACATCTTAGTGTTT
1219	Table 3A	Hs.272307	AL133015	6453493	mRNA; cDNA DKFZp434O2417 (from clone DKFZp434O2417); partial cds /cds=(0,724)	1	CTCTCCTCTTCCACCTCTGTATCCC ACACAGGCATCTGGTGATGTTCTC

Table 8

1220	Table 3A	Hs.75497	AL133074	6453517	p53DINP1 mRNA for p53DINP1b, complete cds /cds=(39,533)	1	ACACCTGTTCTTTGTAATTGGGTTGT
1221	Table 3A	Hs.76853	AL133098	6453550	mRNA; cDNA DKFZp434N1728 (from clone DKFZp434N1728) /cds=UNKNOWN	1	GGTGCAATTTTGCACTACCTGGAGT
1222	Table 3A	Hs.109150	AL133111	6453598	mRNA; cDNA DKFZp434H068 (from clone DKFZp434H068) /cds=UNKNOWN	1	AGCCTAGGTGAAATCTATTATAAAT
1223	Table 3A	Hs.199009	AL133572	6599150	PCCX2 mRNA for protein containing CXXC domain 2, partial cds /cds=(0,2483)	1	GGACCACTCTGGGGTGTCTGT
1224	Table 3A	Hs.25362	AL133611	6599222	mRNA; cDNA DKFZp434O1317 (from clone DKFZp434O1317) /cds=UNKNOWN	1	CATGAAGCTCTCAAGTCTGCATCCT
1225	Table 3A	Hs.224680	AL133721	6601909	DKFZp761H09121_r1 cDNA, 5' end /clone=DKFZp761H09121 /clone_end=5'	1	GAGGATCCAGATGGATGACAAGGA
1226	Table 3A	Hs.306155	AL133879	6602066	chorionic somatomammotropin hormone 1 (placental lactogen) (CSH1), transcript variant 2, mRNA /cds=(116,886)	1	GGTGGTGTTCCTAGACCTTCCTCTGA
1227	Table 3A	Hs.322456	AL136542	12044472	hypothetical protein DKFZp761D0211 (DKFZP761D0211), mRNA /cds=(164,1822)	1	TGCGATTTTACCTTTGTGGAATTT
1228	Table 3A	Hs.258503	AL136549	6807648	mRNA; cDNA DKFZp761I12121 (from clone DKFZp761I12121); complete cds /cds=(138,3899)	1	ACGATGCTGTTTGCTCTGGAATGTTT
1229	Table 3A	Hs.177537	AL136558	13276622	hypothetical protein DKFZp761B1514 (DKFZp761B1514), mRNA /cds=(72,1028)	1	ATCTTTTAGACAGGTTTGGCTCA
1230	Table 3A	Hs.245798	AL136607	12052739	hypothetical protein DKFZp564I0422 (DKFZP564I0422), mRNA /cds=(510,1196)	1	TCCGAGGGATGAGATTAAGGCAGAG
1231	Table 3A	Hs.4750	AL136610	12052745	hypothetical protein DKFZp564K0822 (DKFZP564K0822), mRNA /cds=(9,527)	1	GCAAAAGTTTCACACAAAGTTTCTG
1232	Table 3A	Hs.108548	AL136840	12052805	mRNA; cDNA DKFZp564F163 (from clone DKFZp564F163); complete cds /cds=(149,532)	1	GCCACAACCTCCCATAGATGCCAATGT
1233	Table 3A	Hs.27181	AL136656	12052835	nuclear receptor binding factor-2 (NRBF-2), mRNA /cds=(179,1042)	1	TTTGATAGCCTCAGTTTCTCAACG
1234	Table 3A	Hs.57209	AL136703	12052925	hypothetical protein DKFZp566J091 (DKFZP566J091), mRNA /cds=(212,529)	1	TGACCCACCCACCAAGGAAGAAAGC
1235	Table 3A	Hs.166254	AL136711	12052941	hypothetical protein DKFZp566I133 (DKFZP566I133), mRNA /cds=(133,1353)	1	AGAATAAACATTTTGGCACTGCCTG
1236	Table 3A	Hs.324275	AL136739	12052996	WW domain-containing protein 1 (WWP1), mRNA /cds=(10,2778)	1	CATGCTCTCCCATGACATCTCCATGC
1237	Table 3A	Hs.273294	AL136797	12053106	mRNA; cDNA DKFZp434N031 (from clone DKFZp434N031); complete cds /cds=(18,3608)	1	TGGTTTCTCCATAGCATAAATGAA
1238	Table 3A	Hs.76698	AL136807	12053124	mRNA; cDNA DKFZp434L1621 (from clone DKFZp434L1621); complete cds /cds=(315,515)	1	GGTGCCGTGCATACCAAATGAAAGT
1239	Table 3A	Hs.238996	AL136828	12053164	hypothetical protein DKFZp434K0427 (DKFZP434K0427), mRNA /cds=(341,1813)	1	TTGATTTAACGAGGAGGTGCTTT
1240	Table 3A	Hs.146037	AL136874	12053252	hypothetical protein DKFZp434C135 (DKFZP434C135), mRNA /cds=(118,1206)	1	AAATCCTCTCTGCTGTTACATTATCC
1241	Table 3A	Hs.103378	AL136885	12053268	hypothetical protein MGC11034 (MGC11034), mRNA /cds=(245,640)	1	TTTGTTTAACTATGAACCAAGT
1242	Table 3A	Hs.37892	AL136932	12053358	KIAA0922 protein (KIAA0922), mRNA /cds=(122,3841)	1	GTGTAGAATTCGCGAGCGTCCGTG
1243	Table 3A	Hs.37892	AL136932	12053358	KIAA0922 protein (KIAA0922), mRNA /cds=(122,3841)	1	GTTCAGAGTAACTTGAAGCAGATC
1244	Table 3A	Hs.108338	AL136941	12053376	hypothetical protein DKFZp586C1924 (DKFZP586C1924), mRNA /cds=(105,892)	1	GTGTAGAGTAACTTGAAGCAGATC
1245	Table 3A	Hs.194718	AL136945	12053384	mRNA; cDNA DKFZp586O012 (from clone DKFZp586O012) /cds=UNKNOWN	1	TGGTAGGTTAAGCTGCCATACGTGT
1246	Table 3A	Hs.7392	AL137423	6807979	nucleolar protein GU2 (GU2), mRNA /cds=(107,2320)	1	TCAGTGTGAATAGTGTAAAGTTG
1247	Table 3A	Hs.21015	AL137576	6808287	mRNA; cDNA DKFZp564L0864 (from clone DKFZp564L0864); partial cds /cds=(0,566)	1	TGATGCAAGAGTGGAGCTTGTCT
1248	Table 3A	Hs.122752	AL137601	6808346	TATA box binding protein (TBP)-associated factor, RNA polymerase II, B, 150kD (TAF2B), mRNA /cds=(57,3856)	1	TTTGTGCTTCTGTATTTAAACTTTGG

Table 8

1249	Table 3A	Hs.145612	AL137608	6808357	RNA helicase (RIG-I), mRNA /cds=(157,2934)	1	GAGATCAACGGGATGAGGTGTTACA GCTGCCCTCCCTCTTCATGCAATCTG
1250	Table 3A	Hs.173912	AL137681	6807931	eukaryotic translation initiation factor 4A, isoform 2 (EIF4A2), mRNA /cds=(15,1238)	1	AGGTAGGGTTTAATCCCCAGTAAAT TGCCATATTGCACATGCTCTTAATG
1251	Table 3A	Hs.306195	AL137721	6808159	over-expressed breast tumor protein (OBTP), mRNA /cds=(0,224)	1	AGGGGGTGATTTTTGCTCTTGTCCCTG AGAAATAACAGTGCTGTTTTAAAA
1252	Table 3A	Hs.12144	AL137753	6808455	mRNA; cDNA DKFZp434K1412 (from clone DKFZp434K1412) /cds=UNKNOWN	1	ACTTGAGTGGGGTTTTCTCTTTCCCC CAATTCTAAGAGAATATAATGTGT
1253	Table 3A	Hs.77646	AL137938	6851002	mRNA; cDNA DKFZp761M0223 (from clone DKFZp761M0223) /cds=UNKNOWN	1	GCGTCTGTTGTAGCAAAAGATAGAT TCACACAGTCTAAGGTTTCCTTCC
1254	Table 3A	Hs.235390	AL157426	7018455	mRNA; cDNA DKFZp761B101 (from clone DKFZp761B101) /cds=UNKNOWN	1	CCCTCTTAGCCTATCCATCTTAAGCC CCAAGCTGAGTGTGGTTCTGGTAA
1255	Table 3A	Hs.66151	AL157438	7018513	mRNA; cDNA DKFZp434A115 (from clone DKFZp434A115) /cds=UNKNOWN	1	TAAGGAGAATTAGACTCCCAAGTAGA CACCAGAGTCACTGTTTGGTTGGT
1256	Table 3A	Hs.110702	AL157477	7018497	mRNA; cDNA DKFZp761E212 (from clone DKFZp761E212) /cds=UNKNOWN	1	ACGTGTTTTGGGATATGTTTCCAAT CTTTAAATGACCTTGCCCTGTCCA
1257	Table 3A	Hs.250535	AL157499	7018548	mRNA; cDNA DKFZp434N2412 (from clone DKFZp434N2412) /cds=UNKNOWN	1	AACCATTTGTAACTGTACTGAAGGT GTGTCCTCAAGAAGAAAGTGTTC
1258	Table 3A	Hs.170171	AL161952	7328002	mRNA; cDNA DKFZp434M0813 (from clone DKFZp434M0813); partial cds /cds=(430,788)	1	AAACAACTGTGTAAGTGCCTCAAGC AGCACTTATAAATCAGCCCTAACAT
1259	Table 3A	Hs.71252	AL161991	7328122	mRNA; cDNA DKFZp761C169 (from clone DKFZp761C169); partial cds /cds=(996,2474)	1	AAACTGATCACACTGACTGGATCTGT CCACGACATGGAAATAAACTGGA
1260	Table 3A	Hs.99908	AL162047	7328089	nuclear receptor coactivator 4 (NCOA4), mRNA /cds=(140,1984)	1	TTGCATTGATGAATTTGTATCTGCTT CCATTAAAGCATAACAGCCACA
1261	Table 3A	Hs.78829	AL162049	7328093	mRNA; cDNA DKFZp762E1712 (from clone DKFZp762E1712); partial cds /cds=(0,2477)	1	ATCTCTCCTTCAGTCTGCTCTGTTAA TTCTGCTGTCTGCTCTTCTCTAA
1262	Table 3A	Hs.302649	AL162068	7328143	HSP22-like protein interacting protein (LOC64165), mRNA /cds=(0,155)	1	TTGAAGTTTTAAGGGACGTCAGTGTT TATGCCATTTTCCAGTTCCTCAAAA
1263	Table 3A	Hs.17377	AL162070	7328146	mRNA; cDNA DKFZp762H186 (from clone DKFZp762H186); complete cds /cds=(0,1489)	1	GGTCGGCTCTTATAGATGCGCCATAG TGTTCTGTCAAAAGACTTGCTTCC
1264	Table 3A	Hs.155191	AL162086	7328174	villin 2 (ezrin) (VIL2), mRNA /cds=(117,1877)	1	TTCTCCTTCACAGCTAAGATGCCATG TGCAGGTGGATTCCATGCCGAGAGA
1265	Table 3A	Hs.3576	AL357536	8249879	Homo sapiens, Similar to RIKEN cDNA 5730494N08 gene, clone MGC:13348 IMAGE:4132400, mRNA, complete cds /cds=(132,494)	1	CATGATTCGAAGGATCAGCCTGGATG CCTAGAGGACTAGATCACCTTAGT
1266	Table 3A	Hs.29797	AL359585	8655645	mRNA; cDNA DKFZp762B195 (from clone DKFZp762B195) /cds=UNKNOWN	1	AGTGAAGATCTGGCTGAACCAAGTTC ACAAGGTTACTGTATACATAGCCT
1267	Table 3A	Hs.252588	AL359626	8655704	mRNA; cDNA DKFZp564F172 (from clone DKFZp564F172) /cds=UNKNOWN	1	AGGCCATCATTCTATACCTCATTTAA GCCATTGTTATCAAGGGTTTACCC
1268	Table 3A	Hs.33756	AL359654	8670873	mRNA full length insert cDNA clone EUROIIMAGE 196784 /cds=UNKNOWN	1	AGAGTACATGGAAAGTTAGGTGTTCA AATTACATCTAATTCCTCGGGA
1269	Table 3A	Hs.3640	AL359940	8977897	mRNA; cDNA DKFZp762P1915 (from clone DKFZp762P1915) /cds=UNKNOWN	1	GTTTTTCAGTTTCCCTTTACAGTCTT CTCCCTCACCTCCAGGACCTC
1270	Table 3A	Hs.318501	AL360190	8918391	stimulated trans-acting factor (50 kDa) (STAF50), mRNA /cds=(122,1450)	1	ATCCTTCAGAATGTGTTGGTTTACCA GTGACACCCCATATTCATCACAAA
1271	Table 3A	Hs.7104	AL390127	9368821	mRNA; cDNA DKFZp761P06121 (from clone DKFZp761P06121) /cds=UNKNOWN	1	GTCTGGCCTTGGCTGTCTGGATAAA ACTTTGTATGTATTTGTATGGCA
1272	Table 3A	Hs.49822	AL390132	9368828	mRNA; cDNA DKFZp547E107 (from clone DKFZp547E107) /cds=UNKNOWN	1	TGCTGAGCATGGGGAATGTGGCTGCG TGCAGAGACGTTATGAACACTTCT
1273	Table 3A	Hs.98026	AL442083	10241762	mRNA for KIAA1784 protein, partial cds /cds=(0,3505)	1	TCTCCATCCTTGTGAATGCTCTCGTC TGTTTCAAATACAGTGCAGTCAGT
1274	Table 3A	Hs.77868	AL513780	12777274	ORF (LOC51035), mRNA /cds=(135,1031)	1	TGGTTCTTCTGATGAGCAAGGGAACA ACACTGAGAATGAGGAGGAAGGAGT
1275	Table 3A	Hs.181309	AL520892	12784385	proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2), mRNA /cds=(0,704)	1	TGAAGTTAAGGATTACTTGGCTGCCA TAGCATAACAATGAAGTGAAGTAA
1276	Table 3A	Hs.16648	AL523085	12786578	AL523085 cDNA /clone=CSODC001YF21-(5-prime)	1	GGCTTTCTGTTTGGTGTCTTGGAG TGCTGGGTAAGGTTCAAGTGAATAT
1277	Table 3A	Hs.37617	AL532303	12795796	502144947F1 cDNA, 5' end /clone=IMAGE:4308683 /clone_end=5'	1	CTATCTACACCATCATGCGCTGGTTC CGGAGACACAAGGTGCGGGGTCAC

Table 8

1278	Table 3A	Hs.83583	AL532406	12795899	actin related protein 2/3 complex, subunit 2 (34 kD) (ARPC2), mRNA /cds=(84,986)	1	GAAGCGGCTGGCAACTGAAGGCTGG AACACTTGCTACTGGATAATCGTAG
1279	Table 3A	Hs.30120	AL533737	12797230	602272333F1 cDNA, 5' end /clone=IMAGE:4360233 /clone_end=5'	1	AAGCAAGAGATTGTAACCGGTGTA GAATCCAAGAGATGAGAGAGGACC
1280	Table 3A	Hs.179999	AL534564	12798057	Homo sapiens, clone IMAGE:3457003, mRNA /cds=UNKNOWN	1	AGACGAATGCTTGTCAGTTGTAGCTT TCCAGGATTCTGCTCCAATGAGGA
1281	Table 3A	Hs.159065	AL538276	12801769	AL538276 cDNA /clone=CS0DF027YC09-(5-prime)	1	CAAAGTATTGCGGGGCAAGGACTT GAGTATGGGGAGAGGCTGCAAAAGA
1282	Table 3A	Hs.285401	AL540399	12870508	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage) (CSF2RB), mRNA /cds=(28,2721)	1	GAACATCAGGAGAGGAGTCCAGAGC CCACGTCTACTGCGGAAAAGTCAGG
1283	Table 3A	Hs.181400	AL542592	12874788	602650370T1 cDNA, 3' end /clone=IMAGE:4761353 /clone_end=3'	1	AGTTGGAGAGTTACTCGAACCTCAGG TGACAGTTGTAAGGCAGACATAGT
1284	Table 3A	Hs.271599	AL550229	12886998	cDNA FLJ12347 fls, clone MAMMA1002298 /cds=UNKNOWN	1	CTCCTCCAGGCCTCTCGGATGCCTCT GTTGGGACAGCTAAGTTCCTCTTC
1285	Table 3A	NA	NC_001807	13959823	Mitochondrial Sequence	1	TCCTCCATATATCCAAACAACAAAGC ATAATATTTCGCCCACTAAGCCAA
1288	Table 3A	Hs.218329	AL556016	12898299	mRNA for KIAA1245 protein, partial cds /cds=(701,3379)	1	TGCTGTTGCAAAAGAGAGACACTCT CTGCCTGAGTTTAAATTTGTCCA
1287	Table 3A	Hs.250465	AL556919	12900027	mRNA; cDNA DKFZp434E2023 (from clone DKFZp434E2023) /cds=UNKNOWN	1	TTTCTGCTGGAGTCCCTGTGTCCTC AGCCATCCCAAGAAGGGTTTGCTG
1288	Table 3A	Hs.90035	AL558028	12902157	AL558028 cDNA /clone=CS0DJ002YF02-(5-prime)	1	CTGGTTGGATCTGCATCTCACGCCCA CTGCACACCGTTCCTCTCCATCTG
1289	Table 3A	Hs.301756	AL559029	12904124	Homo sapiens, clone MGC:17544 IMAGE:3462146, mRNA, complete cds /cds=(256,894)	1	ACCTCGACTCCCTGCTGCTCTTTGCA GAGTTGGGCAAGTAAATTACCTTT
1290	Table 3A	Hs.119274	AL559422	12904908	RAS p21 protein activator (GTPase activating protein) 3 (Ins(1,3,4,5)P4-binding protein) (GAP1IP4BP), mRNA /cds=(46,2550)	1	ATACACAGCACGAGTATCCTGTGTAC CGACTTCTCCCGTTCTTGTTGA
1291	Table 3A	Hs.218329	AL559555	12905153	mRNA for KIAA1245 protein, partial cds /cds=(701,3379)	1	GTAAGTAGGAAGACAGCTAGATGG ACAACAGCATTGGGAGGCTTAGCC
1292	Table 3A	Hs.33026	AL561074	12908145	mRNA for FLJ00037 protein, partial cds /cds=(3484,3921)	1	CATCTCTGGTTGTGTCTGCGGACT CGGTGTTGAATCAAATCAGGTGTG
1293	Table 3A	Hs.335863	BE262306	9135208	601462981T1 cDNA, 3' end /clone=IMAGE:3866222 /clone_end=3'	1	CAACAATAGGAGGTGGAATGCTGCAA GGGGCTGCAATGAGGGCAATGCA
1294	Table 3A	NA	NC_001807	13959823	mitochondrial COX3	1	ATATTTCACTTTACATCCAAACATCAC TTTGGCTTCGAAGCCGCGCTG
1295	Table 3A	Hs.287797	AU117298	10932256	mRNA for FLJ00043 protein, partial cds /cds=(0,4248)	1	TGGCAAAATCTGCGAGTGTGATAATT TCAACTGTGATAGATCCAATGGCT
1296	Table 3A	Hs.1600	AU118159	10933184	Homo sapiens, clone IMAGE:3543711, mRNA, partial cds /cds=(0,1620)	1	TCTCACATGTCCTGTTGAACCAACCA AACCAAAACAAAGCATAAGCTGG
1297	Table 3A	Hs.181165	AU120731	10935966	eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA /cds=(53,1441)	1	TCCAGGATGTCTACAAAATTTGGTGGT ATTGGTACTGTTCTGTTGGCCGA
1298	Table 3A	Hs.172028	AU135154	10995693	a disintegrin and metalloproteinase domain 10 (ADAM10), mRNA /cds=(469,2715)	1	TGGACATAGCAGCACATACTACTTCA GAGTTCATGATGATAGTGTCTGGT
1299	Table 3A	NA	AV686223	10288086	AV686223 cDNA, 5' end /clone=GKCGXH11 /clone_	1	AACAGAAGACGAGGACACAGAGCGA GAATAAGCACAACTCAGACAACACA
1300	Table 3A	Hs.343475	AV687530	10289393	601556208T1 cDNA, 3' end /clone=IMAGE:3826392 /clone_end=3'	1	TGACCACTTATGCACTTTCTGAATTTG CTTTCCATGCTCAGAGTTCTGCT
1301	Table 3A	NA	AV689330	10291193	cDNA clone GKCDJE03 5'	1	CTTTGACCCACCTTGTGAAACCCA GCTGTCTACTGGCAGACATTGGTG
1302	Table 3A	Hs.28739	AV691642	10293505	602593745F1 cDNA, 5' end /clone=IMAGE:4721002 /clone_end=5'	1	AAACACCAAGTTTGCAGGAAGAAAGGA AGAGAATGGAATTTGCTTCTGGAA
1303	Table 3A	NA	AV693913	13959823	mitochondrion, complete genome	1	CCCTACCATGAGCCCTACAAACAAC TAACTGCCACTAATAGTTATGTCA
1304	Table 3A	Hs.324602	AW969923	8159767	EST382001 cDNA	1	AGTCGTATTAGAGCCTTGGCGTAATC ATGGTCATAGCTGTTCTGTGTG
1305	Table 3A	Hs.301570	AV702152	10718482	602585120F1 cDNA, 5' end /clone=IMAGE:4712861 /clone_end=5'	1	TTGCTGCCTGATCTGACATACATGAT CCATCGGGTTTGTGTACAAGGAAC
1306	Table 3A	Hs.7312	AV702692	10719022	AV702692 cDNA, 5' end /clone=ADBBQC12 /clone_end=5'	1	CATGTTTCATAGGTAATCTTTGTACTCT GTGTGCAGCAGTATTTGGTTTGC
1307	Table 3A	NA	AV705900	10723195	Partial Cloning Vector	1	AATTGCGCCCTATAGTGAGTCCATTAC CAATCACTGCCCGGTTTACACG
1308	Table 3A	Hs.167130	AV706014	10723303	hypothetical protein (PRED22), mRNA /cds=(245,1021)	1	ACAGGTAAGTGAAGTCAAAGTAAAG CAACAGAGGAATGTACATCTACCT

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1309	Table 3A	Hs.134829	AV706481	10723761	AV706481 cDNA, 5' end /clone=ADBBYF02 /clone_end=5'	1	AACAGTTGGGCACCCTGAATGGCAAA TGGCAAAATTTGGAGCGCTAATAAT
1310	Table 3A	NA	NC_001807	13959823	mitochondrion, complete genome	1	GCCAACTCACTTTATTGACTCTAGCC GCAGACCTCCTCATCTTAACCTGA
1311	Table 3A	Hs.90960	AV710415	10729044	602563938F1 cDNA, 5' end /clone=IMAGE:4688769 /clone_end=5'	1	ATGTGGGAGGGGGCATGGCAGCTATG AAGGACCTCCTACCTCTGGTTTCTG
1312	Table 3A	Hs.316785	AV710763	10730069	AV710763 cDNA, 5' end /clone=CuAAJH09 /clone_end=5'	1	CATGGGACGGGGAGAAAAAGCAAAAC CCTGGCACTTGGGAATACCTTATACC
1313	Table 3A	Hs.135167	AV712376	10731682	AV712376 cDNA, 5' end /clone=DCAAND12 /clone_end=5'	1	TTGTGCCCTTGACTGGGTATTTCTTG AAGCCCTTGGATCTACCTTTGGTC
1314	Table 3A	Hs.89104	AV716500	10798017	602590917F1 cDNA, 5' end /clone=IMAGE:4717348 /clone_end=5'	1	ACATAATACGGTTGTGCGAGCAGAGA ATCTACCTTCCACTTCTAAGCCT
1315	Table 3A	Hs.237868	AV716565	10813717	interleukin 7 receptor (IL7R), mRNA /cds=(22,1401)	1	CCAGCCTTTGCTCTTCTTCAATGT GGTTTCCATGGGAATTTGCTTCAG
1316	Table 3A	Hs.178703	AV716627	10813779	AV716627 cDNA, 5' end /clone=DCBBCH05 /clone_end=5'	1	AAAACCTCGAGTCATGGTGAATGAGT GTCTCGGAGTTGCTCGTGTGTGA
1317	Table 3A	Hs.17481	AV716644	10813796	mRNA; cDNA DKFZp434G2415 (from clone DKFZp434G2415) /cds=UNKNOWN	1	GTGAGCAGGACATCGGCATCATC GAGTGAGACTGGTGTCCAAGATTTC
1318	Table 3A	Hs.256959	AV719442	10816594	AV719442 cDNA, 5' end /clone=GLCBNA01 /clone_end=5'	1	CACCACAGTCTCAGTGCAGGGCTGG GAAGTGAAGACGATTCAACGAGACC
1319	Table 3A	NA	AV719659	10816811	cDNA clone GLCGRA09 5'	1	TTTGTGGGTGGGTGATTAGTCGTTGC TGATGAGATATTTTGGGGTGGGG
1320	Table 3A	Hs.127160	AV719938	10817090	AV659177 cDNA, 3' end /clone=GLCFUC08 /clone_end=3'	1	ACCTTGTAAGTGCCTAAGAAATGAGA CTACAAGCTCCATTGACGAGGAC
1321	Table 3A	Hs.21536	AV720984	10818136	yf69a03.s1 cDNA, 3' end /clone=IMAGE:27414 /clone_end=3'	1	GCCGAGATCTGCTCAGACTACATGG CTTCCACTATAGGGTTCTACAGTGT
1322	Table 3A	Hs.119908	AV721008	10818160	nucleolar protein NOP5/NOP58 (NOP5/NOP58), mRNA /cds=(0,1589)	1	AAATCAGAATTCATTATAGCTACCAC ATCTCTTGAATGTGATTGACCTAC
1323	Table 3A	Hs.247474	AV723437	10826838	hypothetical protein FLJ21032 (FLJ21032), mRNA /cds=(235,1005)	1	AGGTGTTTAACAGTGTATTTTGCCA CTGGTAATGTGTAAACTGTGAGTG
1324	Table 3A	Hs.76728	AV724531	10829010	602570065F1 cDNA, 5' end /clone=IMAGE:4694321 /clone_end=5'	1	TGGAGTTTCCAGGAGAAAAATAATCA CCTTTGAAGGTTTTAGAGCATGT
1325	Table 3A	Hs.280261	BE382869	9328234	601297762F1 cDNA, 5' end /clone=IMAGE:3627808 /clone_end=5'	1	GGTAACAACATCCGCTCTGAAAGGGTC GGACCTCGTCCAAAGGAGATAGGC
1326	Table 3A	Hs.21351	AV724665	10829278	qd15g09.x1 cDNA, 3' end /clone=IMAGE:1723840 /clone_end=3'	1	ACATTTTGATTCTCTCTCTGTGGG GTGGCAAGTTGAGGGAGCATCTT
1327	Table 3A	Hs.44656	AV726117	10832185	AV726117 cDNA, 5' end /clone=HTCAXB05 /clone_end=5'	1	CGTAAACCAATGTGGTACACTAGTTG GCCCGAAGTGGTATAAACCGCCT
1328	Table 3A	Hs.245798	AV727063	10836484	hypothetical protein DKFZp584I0422 (DKFZP584I0422), mRNA /cds=(510,1196)	1	TCTTTAAGTCTGTCAAACCAAGACTC TTTGAAGCACTTTGAACAATGCC
1329	Table 3A	Hs.316771	AV729160	10838581	AV729160 cDNA, 5' end /clone=HTCCAB04 /clone_end=5'	1	AGCTGGCGTAATAGCGAAGAGGCC GCACCGATCGCCTTTCCAACAAGTG
1330	Table 3A	Hs.22003	AV730135	10839556	solute carrier family 6 (neurotransmitter transporter, GABA), member 1 (SLC6A1), mRNA /cds=(234,2033)	1	AGATGCATTTTAAATGTCTATAAATGG TGTCATAACTAGAGACGGGCGT
1331	Table 3A	Hs.175971	AV734916	10852461	AV734916 cDNA, 5' end /clone=cdAAHE11 /clone_end=5'	1	ATTAAAAACGCTTGAAGAAAAATCCCC TTTTGGCAGGTGGGGGAAAAAGCA
1332	Table 3A	NA	AV735258	10852803	mitochondrion, complete genome	1	ATTCAACCAATAGCCCTTGGCGTACC GCCTACCCGTAACACTTACGGAGG
1333	Table 3A	NA	NC_001807	10855754	Mitochondrial Sequence	1	CGCCTATAGCACTCGAATAATCTTC TCACCCTAACAGGTCAACCTCGCT
1334	Table 3A	Hs.246796	AV739961	10857542	AV739961 cDNA, 5' end /clone=CBFBRA10 /clone_end=5'	1	GTTGTGCATGATTCACCGTGTCTC TGTTTATCCAGATAAGAAAGATA
1335	Table 3A	Hs.122431	AV743635	10861216	AV713062 cDNA, 5' end /clone=DCAADD12 /clone_end=5'	1	TCTTTTAGGATTTGTCTTTTAGAATCT CCAGTCCTCACAGGAAAAACCC
1336	Table 3A	Hs.42915	AV745692	10865139	ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA /cds=(74,1258)	1	TGGGTGGAGTATTATGTTAACTGGA GTTGTCAAGTATGAGTCCCTCAGG
1337	Table 3A	Hs.26670	AV749844	10907692	PAC clone RP3-515N1 from 22q11.2- q22 /cds=(0,791)	1	ACCTCATCTGACACCTGCATATAGT GTGGGAAATTGCTCTGCATTGAC
1338	Table 3A	Hs.31409	AV752358	10910206	602685862F1 cDNA, 5' end /clone=IMAGE:4818566 /clone_end=5'	1	GTTCTGGAGGACAGGAAGGCTGACC CACAGAGGATTATACCACGGGGTG
1339	Table 3A	Hs.335863	AV755117	10912965	601462931T1 cDNA, 3' end /clone=IMAGE:3866222 /clone_end=3'	1	GCCGCAGACCTCCTCATTCTAACCTG AATCGAAGGACAACAGTAAGCTA
1340	Table 3A	Hs.339698	AV755367	10913215	ribosomal protein S12 (RPS12), mRNA /cds=(80,478)	1	TGAGTCGTATTACAATTCAGTGGCCG TCGTTTACAACGCTCGTACTGGG
1341	Table 3A	Hs.181165	AV756188	10914036	eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA /cds=(53,1441)	1	TAAGATTATCAACCTTGGGGTCTGTT TGTTGTTCCGCGGATGAGCAGG
1342	Table 3A	Hs.58643	AV760147	10917995	602438603F1 cDNA, 5' end /clone=IMAGE:4564968 /clone_end=5'	1	CTGGGCTGAAGCCTATTCTATGGG GCTCTGGAATGTTTGTGACTGAATG

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1343	Table 3A	Hs.93194	AV762642	10920490	apolipoprotein A-I (APOA1), mRNA /cds=(38,841)	1	TTGTCCATTGGGAACAGAGTCACTAT AAAGAACGGGCTCAACTGGGCACC
1344	Table 3A	Hs.301553	AW021037	5874567	karyopherin alpha 6 (importin alpha 7) (KPNA6), mRNA /cds=(55,1665)	1	GCAGACATAGGCGAAGAAACATGG CATTGAGTGTGCTGAGTCCAGACAA
1345	Table 3A	Hs.232400	AW021551	5875081	heterogeneous nuclear ribonucleoprotein A2/B1 (HNRPA2B1), transcript variant B1, mRNA /cds=(169,1230)	1	CTTTTCCCACCCCTCCCCCTCCATG TGAAAGTTTGGGTGCTTAACATAT
1346	Table 3A	Hs.95835	AW248322	6591315	RST8356 cDNA	1	GGCACTGCCTCCTTACCTGTGAGGAA TGCAAATAAAGCATGGATTAAGT
1347	Table 3A	Hs.340753	AW362008	6866658	hw50h12.x1 cDNA, 3' end /clone=IMAGE:2263175 /clone_end=3'	1	AAACCACACCAGGAACCTCTTGTCATG GCAAAGCTGAACAGTACAAATCC
1348	Table 3A	Hs.127574	BG436386	13342892	602509044F1 cDNA, 5' end /clone=IMAGE:4619579 /clone_end=5'	1	ACACAGTCATCCCCATGCAGAAACCT CAGAAACACCAATGTATTACACA
1349	Table 3A	Hs.8024	AW390233	6894892	IK cytokine, down-regulator of HLA II (IK), mRNA /cds=(111,1784)	1	GTCTGAACGAGACTCAATTCCTCTCC GAGGCTCCCCAAACAAATTGTAGC
1350	Table 3A	NA	AW402007	6920693	UI-HF-BK0-aao-g-02-0-UI.r1 NIH_MGC_36 cDNA clone IMAGE:3054530 5'	1	GTGCAGTCCATCATGATCCAAGCCTGT CTCTTGAGGAACAACCGCGCAGAC
1351	Table 3A	Hs.181125	AW405863	6924920	Homo sapiens, clone MGC:12849 IMAGE:4308973, mRNA, complete cds /cds=(24,725)	1	GACCCAGGCTATGGATGAGGCTGAC TATTACTGTGACGGCTGGGACAGCA
1352	Table 3A	NA	AW499658	7111531	UI-HF-BR0p-ajj-c-07-0-UI.r1 NIH_MGC_52 cDNA clone IMAGE:3074677 5'	1	TGGTGGAATCTGATTTTGGAAAC GAGTATTGGAGGACTATAAAACAA
1353	Table 3A	NA	AW499828	7111870	UI-HF-BN0-ake-c-06-0-UI.r1 NIH_MGC_50 cDNA clone IMAGE:3076619 5'	1	ACATTTCTTGTGGCACTACAGCAAC CACATACAGTACAGACAACCTCCA
1354	Table 3A	Hs.181461	AW499829	7111872	ariadne (Drosophila) homolog, ubiquitin-conjugating enzyme E2-binding protein, 1 (ARIH1), mRNA /cds=(314,1987)	1	TGGGATAAAGGTGTGTCGGTTTAGCA CCTCTGGAAGACCTATCTAGAGCT
1355	Table 3A	Hs.145668	AW500534	7113240	fmc5 cDNA /clone=CR6-21	1	CCTGGCACATGTTGTCTGGAGTCTGG CACACTGGTTATCAATAGCACATT
1356	Table 3A	Hs.304900	AW501528	7115141	602288147F1 cDNA, 5' end /clone=IMAGE:4373963 /clone_end=5'	1	GCATGTTCTCACCGTGAAGGAGAGT GATGCAGGGAGATACTACTGTGCAG
1357	Table 3A	Hs.37892	AW504212	7141879	KIAA0922 protein (KIAA0922), mRNA /cds=(122,3841)	1	AAAGTGGGTGGAAGACTTCTCGTG CAGGAGGCTCACTCCGATTAAAGGT
1358	Table 3A	Hs.120996	AW504293	7141960	serine/threonine kinase 17b (apoptosis-inducing) (STK17B), mRNA /cds=(261,1379)	1	CTGTGGTCTGTTATATGAGAGAGATC CTTTAACTAGAGCAAAGAGGGAGT
1359	Table 3A	Hs.182937	AW630825	7377615	peptidylprolyl isomerase A (cyclophilin A) (PPIA), mRNA /cds=(44,541)	1	GCTTGCTGTTCTTAGAATTTGCGCTT GTAAGTTCTAGCTCAAGTTGGGG
1360	Table 3A	Hs.102647	AW651682	7412932	602271536F1 cDNA, 5' end /clone=IMAGE:4359609 /clone_end=5'	1	TTTCTCAGAGCTGGAGGTTGCTGGG CACCTAAATGATGTTTCATGATAGC
1361	Table 3A	NA	AW792856	7844778	UM0001 cDNA	1	CTTTTGTAAAGTTACAACATTCCTG GATCCTTATATTGCCTGTAGTGG
1362	Table 3A	NA	AW810442	7903436	ST0125 cDNA	1	CTCATCTATGTCTTCTAAAGCTTTTCT GCATTCCTCCACCTGGGATTCAA
1363	Table 3A	NA	AW812896	7905890	RC3-ST0186-250200-018-a11 cDNA /gb=AW812896	1	CTGTCTTTGGAAGGAGACACAAGAAC CTGATAACATTGGTTGCTTCGGG
1364	Table 3A	Hs.44577	AW813133	7906127	602388170F1 cDNA, 5' end /clone=IMAGE:4517129 /clone_end=5'	1	AAACAAGAACCCACTTAAACACAGCA TCAAACCTCTACCATGAATGAAGA
1365	Table 3A	Hs.23128	AW819894	7912888	Homo sapiens, Similar to RIKEN cDNA 4931428D14 gene, clone MGC:15407 IMAGE:4309613, mRNA, complete cds /cds=(123,1151)	1	TTCTTCTGGTCAATATTCCTCTTTTGA TTTTCTAAGAACTTCCCTCAGGA
1366	Table 3A	Hs.165695	AW850041	7945558	IL3-CT0216-170300-097-C07 cDNA	1	ACACAAGATACTGCCACTTTCTCTAC ACAAAGACCCACCAACACACAGC
1367	Table 3A	Hs.301756	AW866426	8000476	Homo sapiens, clone MGC:17544 IMAGE:3462146, mRNA, complete cds /cds=(256,894)	1	CTTTCTCAGGAAGTGGCTCTGCCAGG CAGGACTATGTGGGAAAGGGTTTT
1368	Table 3A	Hs.130729	AW898615	8062820	RC1-NN0073-090500-012-f02 cDNA	1	ATTACATGCTAACTCAAACCTTACAAA TCAAGCTCTCTGTGATCCTGGTT
1369	Table 3A	Hs.166975	AW949481	8139088	splicing factor, arginine/serine-rich 5 (SFRS5), mRNA /cds=(218,541)	1	GATTAAAGGCTTCCATCGATTGGGTA GTGTCCTTCAAGTGGGTGGCGAAG
1370	Table 3A	Hs.172028	AW954112	8143795	a disintegrin and metalloproteinase domain 10 (ADAM10), mRNA /cds=(469,2715)	1	TGTATTAAACAGGCTTATTGCTATGCA GGGAAATAGAAGGGGCATTACAAA
1371	Table 3A	Hs.76728	AW954476	8144159	602570065F1 cDNA, 5' end /clone=IMAGE:4694321 /clone_end=5'	1	TGGTGGATGGATGGAACACATACCT CCTAATTAACCTGTTGGTGGAAC
1372	Table 3A	Hs.292457	AW954580	8144263	Homo sapiens, clone MGC:16362 IMAGE:3927795, mRNA, complete cds /cds=(498,635)	1	GCCTTGGAGTGTGACATTTCTGCGAG AATGCTTAAATACCGATTTCCTCGC



Table 8

1373	Table 3A	Hs.95835	AW955265	8144948	RST8356 cDNA	1	AGGGAGTCGTTTTACCAATTCAGTGG CCCGTGTGTTTACAAACGTCTGACT
1374	Table 3A	Hs.205353	AW957139	8146822	ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1), mRNA /cds=(67,1599)	1	TGGAGAGCTTGGGACAAGGTCAGAA TGAAACATACCAGTCAATCCTGCT
1375	Table 3A	Hs.289088	AW958538	8148222	heat shock 90kD protein 1, alpha (HSPCA), mRNA /cds=(60,2258)	1	ACCTGTGCTCTTTGGATACCTAATGC GACATTTAAGTTGTATTTGACAGT
1376	Table 3A	Hs.14453	AW960484	8150168	interferon consensus sequence binding protein 1 (ICSBP1), mRNA /cds=(47,1327)	1	AGGCTGGGCACAAAGGAGAAAGGAG GACATGGAATAATCCGACAATTCGAA
1377	Table 3A	Hs.198427	AW960593	8150277	hexokinase 2 (HK2), mRNA /cds=(1490,4243)	1	ATCTCAATCCTTGAGCACTCAGTCT AGTGAAGATGTTGTCTATTGTATACA
1378	Table 3A	Hs.237868	AW963171	8153007	Interleukin 7 receptor (IL7R), mRNA /cds=(22,1401)	1	GGGTCAATAGTTTCATGGGTTTGTGA GAATTGTGGCTCCTGGTTTCTGGT
1379	Table 3A	Hs.56205	AW964218	8154054	insulin induced gene 1 (INSIG1), mRNA /cds=(414,1247)	1	GCCTTCTTTTCTGCTGACTGGGGGCTT TCATTTAAAGGAGTCTTTTAAAT
1380	Table 3A	Hs.30212	AW965078	8154914	thyroid receptor interacting protein 15 (TRIP15), mRNA /cds=(15,1346)	1	TGTAACAGTGGCAGGAGCGTGGAC TTAAACAGGCTTGCTTATTTGGT
1381	Table 3A	Hs.124764	AW965490	8155326	602386504F1 cDNA, 5' end /clone=IMAGE:4515481 /clone_end=5'	1	GCCCTTTGGGTTAAGCCTTATCATTC ATGAAGACCCCTCCAGGGTAGAAT
1382	Table 3A	Hs.132739	AW965987	8155823	EST378060 cDNA /	1	AAAAGGAAACGAAAAAGGAAAGGT GGCCAATGTGGAAGTTTCAAT
1383	Table 3A	Hs.293418	AW966098	8155934	EST385296 cDNA	1	ACTCTCAGGAGCCATGAAAGCTGCAC AGTTACTTTATATACCACGAGGCA
1384	Table 3A	Hs.25130	AW967388	8157225	cDNA FLJ14923 fis, clone PLACE1008244, weakly similar to VEGETATIBLE INCOMPATIBILITY PROTEIN HET-E-1 /cds=UNKNOWN	1	TTATGTCACCAGATGTTTGCCACACA CCCCGAAAGGAACAGAGGACTT
1385	Table 3A	Hs.343615	AW968581	8158402	602621493F1 cDNA, 5' end /clone=IMAGE:4755168 /clone_end=5'	1	AGGTTATTTGAGCACAGTGAAGCAG AGTACTATTGGTTGTCCAACACAGG
1386	Table 3A	Hs.82712	AW969359	8159203	fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA /cds=(12,1877)	1	GGCCTGCCATCCGAGGGACTGTGTT GTAGATTGTGATCAAGGTTGATTGG
1387	Table 3A	Hs.199160	AW969546	8159390	translocation T(4;11) of ALL-1 gene to chromosome 4 /cds=UNKNOWN	1	ACAGGTAGTTGAATAATTGTTTCAAG AGCTCAACAGATGACAAGCTTCTT
1388	Table 3A	Hs.293744	AW973953	8165036	602279577F1 cDNA, 5' end /clone=IMAGE:4387322 /clone_end=5'	1	AATACACTTTGTGCCAAGGGAAGAAC ACTGCATGCCCTGGGTCTTCAGTC
1389	Table 3A	Hs.43148	AW993524	8253690	602554063F1 cDNA, 5' end /clone=IMAGE:4663887 /clone_end=5'	1	GGGAAGTGGAGGTGAGAAGCATTAT AATAGCCTCTCTGCCTTATCTACA
1390	Table 3A	Hs.238990	AY004255	9652559	Homo sapiens, Similar to cyclin- dependent kinase inhibitor 1B (p27, Kip1), clone MGC:5304 IMAGE:3458141, mRNA, complete cds /cds=(377,973)	1	ACAAGCCAAAGTGGCATGTTTTGTGC ATTTGTAAATGCTGTGTTGGGTAG
1391	Table 3A	Hs.16773	AY007108	9955998	clone TCCCA00427 mRNA sequence /cds=UNKNOWN	1	AACAGACTGTCGTAGAAAAGTGTCTT TGCTTCCAAATCAGCAGAGGACCA
1392	Table 3A	Hs.285013	AY007110	9956004	putative HLA class II associated protein I (PHAP1), mRNA /cds=(148,897)	1	GCCCCCTCAGAAAGGCCAACTTTGAG TTTTATGTCTGTTGTCAATTGATA
1393	Table 3A	Hs.24435	AY007126	9956024	clone CDABP0028 mRNA sequence /cds=UNKNOWN	1	.CCTTGTTGTCCAACGGGAATAGGAAGA ATTAGTTACTGACTTCACCTGAGA
1394	Table 3A	Hs.330838	BE910568	10407295	601501121F1 cDNA, 5' end /clone=IMAGE:3903053 /clone_end=5'	1	CCCACAATTGGACTGATAGGGGGAG AAAATCCAAGAGACGGAGCAACTG
1395	Table 3A	Hs.250820	AY007158	9956071	hypothetical protein FLJ14827 (FLJ14827), mRNA /cds=(468,1277)	1	AACGGCAACTGGGAGATTGTGAGT GAACACTGTTTCATCTTAATATGCT
1396	Table 3A	Hs.173274	AY007165	9956080	integrin cytoplasmic domain-associated protein 1 (ICAP-1A), transcript variant 1, mRNA /cds=(168,770)	1	ACATCTGAGAAACCCCTGAATCCTGCA ATCAAGTAGAAGTCAACTTCATCT
1397	Table 3A	Hs.105484	AY007243	12621025	regenerating gene type IV (REG-IV), mRNA /cds=(181,657)	1	GCCATAGGAAGGTTTACCAGTAGAAT CCTTGCTAGGTTGATGTGGGCCAT
1398	Table 3A	Hs.5298	AY029066	14017398	CGI-45 protein (LOC51094), mRNA /cds=(182,1294)	1	TCATCTCAACTTAGTATTATACCCACA CCCACCCAAGAACAGGGTTTGT
1399	Table 3A	Hs.79070	BC000141	12652778	v-myc avian myelocytomatosis viral oncogene homolog (MYC), mRNA /cds=(558,1877)	1	GACTGAAAGATTAGCCATAATGTAA ACTGCCTCAAAATGGACTTTGGGC
1400	Table 3A	Hs.334602	BC000167	13096801	cDNA FLJ14539 fis, clone NT2RM2001345, weakly similar to VEGETATIBLE INCOMPATIBILITY PROTEIN HET-E-1 /cds=(7,1434)	1	GGCACTGTCTGTGCTCTTCTTGAAC TGTCTACCTGTTGCTTTTCACAA
1401	Table 3A	Hs.75458	BC000374	12653212	ribosomal protein L18 (RPL18), mRNA /cds=(15,581)	1	GGCCAGCCGAGGCTACAAAACTAA CCCTGGATCCTACTCTGCTTATAAA
1402	Table 3A	Hs.278544	BC000408	12653278	acetyl-Coenzyme A acetyltransferase 2 (acetoacetyl Coenzyme A thiolase) (ACAT2), mRNA /cds=(37,1230)	1	ACTAGGTTGCAATATGTGAAATCAGA GGACCAAAGTACAGATGAAAGCCA



Table 8

1403	Table 3A	Hs.183704	BC000449	12653358	ubiquitin mRNA, complete cds /cds=(135,2192)	1	CCCTGTCTGACTACAACATCCAGAAA GAGTCCACTCTGCACTTGGTCTCTG
1404	Table 3A	Hs.151242	BC000514	12653484	serine (or cysteine) proteinase inhibitor, clade G (C1 inhibitor), member 1 (SERPING1), mRNA /cds=(60,1562)	1	GGCATCGCCCATGCTCCTCACTGTGTA TTTTGTAATCAGAAATAAATTGCT
1405	Table 3A	Hs.180450	BC000523	12653502	ribosomal protein S24 (RPS24), transcript variant 1, mRNA /cds=(37,429)	1	AAAGCAACGAAAGGAACGCAAGAAC AGAATGAAGAAAGTCAGGGGGACTG
1406	Table 3A	Hs.272822	BC000530	12653516	RuvB (E coli homolog)-like 1 (RUVBL1), mRNA /cds=(76,1446)	1	TCCCACCTTTGTCTGTACATACTGGCC TCTGTGATTACATAGATCAGCCAT
1407	Table 3A	Hs.83583	BC000590	12653624	actin related protein 2/3 complex, subunit 2 (34 kD) (ARPC2), mRNA /cds=(84,986)	1	GAAGCGGCTGGCAACTGAAGGCTGG AACACTTGCTACTGGATAATCGTAG
1408	literature	Hs.153026	BC000616	12653666	mRNA for KIAA0640 protein, partial cds /cds=(0,1812)	1	CAGTCACGTCAGTTATGTAGATACTG CATGGCAGGAGAGCTTTACGCTAA
1409	Table 3A	Hs.321677	BC000627	12653684	signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3), mRNA /cds=(220,2532)	1	GCCACCCCTCACACAGCCAAACCCC AGATCATCTGAACTACTAACTTTG
1410	Table 3A	Hs.5662	BC000672	12653772	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1 (GNB2L1), mRNA /cds=(95,1048)	1	GCAGGTGACCATTTGGCACACGCTAG AAGTTTATGGCAGAGCTTTACAAAT
1411	Table 3A	Hs.4147	BC000687	12653798	Homo sapiens, translocating chain-associating membrane protein, clone MGC:784 IMAGE:3347823, mRNA, complete cds /cds=(91,1215)	1	TGCCATGCTGCTAGGAAATTTGTCCTT TTTCTTTCTAGCTGTAACTACT
1412	Table 3A	Hs.44468	BC000758	12653928	Homo sapiens, clone MGC:2698 IMAGE:2820737, mRNA, complete cds /cds=(168,266)	1	AACTTATTCAGTGTTGATCGCAAGC TGTTGATGCACAGGCGCTTTGTGG
1413	Table 3A	Hs.101514	BC000764	12653940	hypothetical protein FLJ10342 (FLJ10342), mRNA /cds=(533,1144)	1	TGAAAAGGATTAAAGCTGGTATTCTA GAACATGCCCTTCACTGGTGTGT
1414	Table 3A	Hs.85844	BC000771	12653954	neurotrophic tyrosine kinase, receptor, type 1 (NTRK1), mRNA /cds=(0,2390)	1	GGTAAGGTTTCTAGGAGGTCTGTTAG GTGTACATCCTGCAGCTTATTGGC
1415	Table 3A	Hs.195870	BC000967	13111833	chronic myelogenous leukemia tumor antigen 68 mRNA, complete cds, alternatively spliced /cds=(232,1983)	1	TGATTCTGTAAAGCTGTGGAATGAAG CTGCAGATTGAGAGAACATTGGCT
1416	Table 3A	Hs.299214	BC001077	12654494	Homo sapiens, clone IMAGE:2822295, mRNA, partial cds /cds=(0,661)	1	CGATTTTACACGGCTGGGTAGAAATTT GTAGAAAAGATCCACAGGGCAAGC
1417	Table 3A	Hs.82193	BC001169	12654662	cDNA FLJ11763 fis, clone HEMBA1005679 /cds=UNKNOWN	1	GCTACTACTTCATTGCAACCTTTATTA CTGACCACATCAGACATCATGCT
1418	Table 3A	Hs.240770	BC001255	12654824	Homo sapiens, nuclear cap binding protein subunit 2, 20kD, clone MGC:4991 IMAGE:3458927, mRNA, complete cds /cds=(26,496)	1	GGGCTGAAGTACCTAAGTGTGAATGT CTCTCCCGTTAACTGAGGTAGAG
1419	Table 3A	Hs.73957	BC001267	12654846	Homo sapiens, RAB5A, member RAS oncogene family, clone MGC:5048 IMAGE:3483669, mRNA, complete cds /cds=(165,812)	1	AGGAAAACGGTTCACCAGTGTTTAGT TTTATATTGAGGTGCTCAGGTTGG
1420	Table 3A	Hs.73965	BC001303	12654914	splicing factor, arginine/serine-rich 2 (SFRS2), mRNA /cds=(155,820)	1	CCGGGCGCTTGCATATAAATAACGGAG CATACAGTGAGCACATCTAGCTGA
1421	Table 3A	Hs.62954	BC001399	12655094	ferritin, heavy polypeptide 1 (FTH1), mRNA /cds=(91,663)	1	ATTAATGAAAGCTAAGCCTCGGGCTAA TTTCCCATAGCCGTGGGGTGAAT
1422	Table 3A	Hs.288038	BC001412	12655120	tRNA isopentenylpyrophosphate transferase (IPT), mRNA /cds=(60,1040)	1	TGCATCGTAAACCTTCAGAAGGAAA GGAGAATGTTTGTGGACCACTTT
1423	Table 3A	Hs.3459	BC001413	13937593	cDNA: FLJ22003 fis, clone HEP06764 /cds=UNKNOWN	1	TGCTCTGTTCTGGTTTCTGTTTTCAAA TCAAATGCCTGTTTGGGAGGAGA
1424	Table 3A	Hs.51299	BC001632	12804450	NADH dehydrogenase (ubiquinone) flavoprotein 2 (24kD) (NDUFV2), mRNA /cds=(18,767)	1	CAAAATCCAAAACAGGGCCCAAGG AGTGGACGCTTCTCTTGTGAGCCAG
1425	Table 3A	Hs.155101	BC001637	12804460	mRNA for KIAA1578 protein, partial cds /cds=(0,3808)	1	ACAAATTTCTTGGCTGGATTGAAGC TTAAACTCCTGTGGATTACATCA
1426	Table 3A	Hs.318069	BC001646	12804476	cDNA FLJ20350 fis, clone HEP13972, highly similar to Z184_ZINC FINGER PROTEIN 184 /cds=UNKNOWN	1	TCCACGGTTGTGCCTTATTGTTCCAT TAAATTTGATCTTCGATCCATCA
1427	Table 3A	Hs.8297	BC001660	12804498	cDNA FLJ10907 fis, clone OVARC1000060 /cds=(319,696)	1	GGTCTGAGAGTCTGTGAAGATGGCC CAGTCTTCTATCCCCACCTAAAAA
1428	Table 3A	Hs.17279	BC001697	12804560	tyrosylprotein sulfotransferase 1 (TPST1), mRNA /cds=(81,1193)	1	ACACACAGAGGGGAAATCCTGGGA TTCTTTTCTAGGGATGTAATACAT
1429	Table 3A	Hs.284291	BC001798	12804732	sorting nexin 6 (SNX6), mRNA /cds=(497,1369)	1	CTGTTTGAAGTGTGAGTTTCCGTTG CTGGCTGAGTGCGTTTGTCTCTTC
1430	Table 3A	Hs.8297	BC001819	12804758	cDNA FLJ10907 fis, clone OVARC1000060 /cds=(319,696)	1	GGTCTGAGAGTCTGTGAAGATGGCC CAGTCTTCTATCCCCACCTAAAAA
1431	Table 3A	Hs.77502	BC001854	12804818	Homo sapiens, methionine adenosyltransferase II, alpha, clone MGC:4537 IMAGE:3010820, mRNA, complete cds /cds=(116,1303)	1	GGTACAGAGAAGCCAGCTTGTTFACA TGCTTATTCATGACTGCTTGCCC

Table 8

1432	Table 3A	Hs.77502	BC001854	12804818	Homo sapiens, methionine adenosyltransferase II, alpha, clone MGC:4537 IMAGE:3010820, mRNA, complete cds /cds=(116,1303)	1	GGTACAGAGAAGCCAGCTTGTGTACATGCTTATCCATGACTGCTTGCC
1433	Table 3A	Hs.13580	BC001909	12804912	Homo sapiens, clone IMAGE:3537447, mRNA, partial cds /cds=(0,790)	1	GGGAGAATGAATGTGCAACGTGGCTGAAATCTATTTTGTGTAATAAAGG
1434	Table 3A	Hs.157236	BC001913	12804920	Homo sapiens, clone MGC:3015 IMAGE:3162543, mRNA, complete cds /cds=(332,1234)	1	CCCCACCACCCATTACCACAGCTGCTTTGTGTGTTGTGTCAATAAAA
1435	Table 3A	Hs.318885	BC001980	12805046	superoxide dismutase 2, mitochondrial (SOD2), mRNA /cds=(4,672)	1	CCAGCAAGATAATGTCCTGTCTTCTAAGATGTGCATCAAGCCTGGTACAT
1436	Table 3A	Hs.288061	BC002409	12803202	actin, beta (ACTB), mRNA /cds=(73,1200)	1	CCAACTTGAGATGTATGAAGGCTTTTGGTCTCCCTGGGAGTGGGTGGAGG
1437	Table 3A	Hs.284214	BC002435	12803242	putative zinc finger protein (LOC55818), mRNA /cds=(299,3937)	1	GCTACTAGAGAGCAAGGGGCTTTCTTACCACCAGTGTCTGAGGAGAAAAGT
1438	Table 3A	Hs.334822	12803270	12803270	Homo sapiens, Similar to ribosomal protein L4, clone MGC:2966 IMAGE:3139805, mRNA, complete cds /cds=(1616,2617)	1	ACCAAGAAACCCAGCCCTGAAAGAAAGCCTGCAGAGAAGAAACCTACTAC
1439	Table 3A	Hs.104879	BC002538	12803428	Homo sapiens, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 9, clone MGC:2131 IMAGE:3140427, mRNA, complete cds /cds=(92,1222)	1	TTTCCTCATCTATGAATTGTCAATTCACACACCTACTTTTCTGCTTCGTTT
1440	Table 3A	Hs.104879	BC002538	12803428	Homo sapiens, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 9, clone MGC:2131 IMAGE:3140427, mRNA, complete cds /cds=(92,1222)	1	TTTCCTCATCTATGAATTGTCAATTCACACACCTACTTTTCTGCTTCGTTT
1441	Table 3A	Hs.146409	BC002711	12803746	cell division cycle 42 (GTP-binding protein, 25kD) (CDC42), mRNA /cds=(69,644)	1	AATAATGACAAATGCCCTGCACCTACCCACATGCACTCGTGTGAGACAAAG
1442	Table 3A	Hs.322824	BC002746	12803812	Homo sapiens, Similar to dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), clone MGC:3903 IMAGE:3630566, mRNA, complete cds /cds=(15,872)	1	GTGCCCTGTGGGTCCCAGGGAGGCTTAACAAGGATTTTTCAACTTA
1443	Table 3A	Hs.46446	BC002796	12803898	lymphoblastic leukemia derived sequence 1 (LYL1), mRNA /cds=(0,803)	1	CAGTGAAGACGTGAGGGGCAAGGTCCTCGGGGGTCCGGAAGGGTGATCATC
1444	Table 3A	Hs.322404	BC002837	12803976	hypothetical protein MGC4175 (MGC4175), mRNA /cds=(221,577)	1	TGCAAGGGAGACATATCTAGATCACTTTGCTTTTCTTTAAGGAGCTGA
1445	Table 3A	Hs.288036	BC002845	12803990	tRNA isopentenylpyrophosphate transferase (IPT), mRNA /cds=(60,1040)	1	TGCATCGTAAACCTTCAGAGGAGAAAGGAGAATGTTTGTGGACCACTTT
1446	Table 3A	Hs.318693	BC002867	12804028	Homo sapiens, clone IMAGE:3940519, mRNA, partial cds /cds=(0,902)	1	TTGGGGGAGGTTAGGGACTTATCCTGTGCTTGTAATAAATAAGGTCATG
1447	Table 3A	Hs.181309	BC002900	12804094	proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2), mRNA /cds=(0,704)	1	ACTTGGCTGCCATAGCATAACAATGAAGTGACTGAAAAATCCAGAATTC
1448	Table 3A	Hs.96757	12804148	12804148	suppressor of Ty (Sc.cerevisiae) 3 homolog (SUPT3H), mRNA /cds=(71,1024)	1	AAAATATTAAACACAACTACCACCTACCTCCCTCACCAGCCCATAAA
1449	Table 3A	Hs.1600	BC002971	12804224	Homo sapiens, clone IMAGE:3543711, mRNA, partial cds /cds=(0,1620)	1	AGCTGTTTGGTAACCATAGTTTCACTTGTTCAAAGCTGTGTAATCGTGGG
1450	Table 3A	Hs.1600	BC002971	12804224	Homo sapiens, clone IMAGE:3543711, mRNA, partial cds /cds=(0,1620)	1	AGCTGTTTGGTAACCATAGTTTCACTTGTTCAAAGCTGTGTAATCGTGGG
1451	Table 3A	Hs.75193	BC003090	13111846	COP9 homolog (COP9), mRNA /cds=(49,678)	1	TGTCGCCCTTTAGAAGGAGAACTTAAGTGTGGAATGCATTATATGGGCA
1452	Table 3A	Hs.334861	BC003137	13111932	hypothetical protein FLJ23059 (FLJ23059), mRNA /cds=(41,1681)	1	TCCTTGGCAGCTGTATTCTGGAGTCTGGATGTTGCTCTCTAAAGACCTTT
1453	Table 3A	Hs.326456	BC003352	13097158	hypothetical protein FLJ20030 (FLJ20030), mRNA /cds=(1,1239)	1	TTTGAGTGGAGGCAATTGTTTTTAAGAAAAACATGTCATGTAGGTGTCT
1454	Table 3A	Hs.77091	NM_006730	5803006	deoxyribonuclease I-like 1 (DNASE1L1), mRNA /cds=(794,1702)	1	TGGCTGGGACGCTAGAAGGGTCAATGTGTTAACTAATACACATTTATGGT
1455	Table 3A	Hs.24697	BC003406	13097305	cDNA FLJ20709 fis, clone KIA1124, highly similar to D86324 mRNA for CMP-N-acetylneuraminic acid /cds=UNKNOWN	1	ATTCTGGTTAACCCTCAGATGCATAACAATAATGCTAGAAATTCAGGAA
1456	Table 3A	Hs.42712	BC003525	13097617	Homo sapiens, Similar to Max, clone MGC:10775 IMAGE:3607261, mRNA, complete cds /cds=(115,570)	1	TGCTGATTTCTAGTGTAATCTCTGTAGTCTAGTTCTGTTTGTATTCCAT
1457	Table 3A	Hs.5322	BC003583	13097716	guanine nucleotide binding protein (G protein), gamma 5 (GNG5), mRNA /cds=(333,539)	1	AAATGAATCTTCAAAGGTTTCCCAACCACTCCTATGATCCAGTGATA
1458	Table 3A	Hs.334861	BC003577	13097758	hypothetical protein FLJ23059 (FLJ23059), mRNA /cds=(41,1681)	1	TCCTTGGCAGCTGTATTCTGGAGTCTGGATGTTGCTCTCTAAAGACCTTT

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1459	Table 3A	Hs.56851	BC003581	13097767	hypothetical protein MGC2668 (MGC2668), mRNA /cds=(20,325)	1	TGCGTGTGCCTCAGTTTCCTCCTCCA
1460	Table 3A	Hs.188757	BC003697	13277575	Homo sapiens, clone MGC:5564, mRNA, complete cds /cds=(227,304)	1	CAACTGAATATTTATAGTGGCTGA
1461	Table 3A	Hs.215595	BC004186	13278842	guanine nucleotide binding protein (G protein), beta polypeptide 1 (GNB1), mRNA /cds=(280,1302)	1	GGGATGTGGAGGATTTTGTAAAGTG
1462	Table 3A	Hs.111334	BC004245	13279004	PRO2760 mRNA, complete cds /cds=UNKNOWN	1	TCAATCGAAGTAAAAAGCAAGGG
1463	Table 3A	Hs.70333	BC004258	13279043	mRNA for KIAA1844 protein, partial cds /cds=(0,1105)	1	AGCTCTCTGCACCCCTTACCCCTTTCC
1464	Table 3A	Hs.9788	BC004317	13279217	hypothetical protein MGC10924 similar to Nedda WW-binding protein 5 (MGC10924), mRNA /cds=(104,769)	1	ACCTTTTGTATTTAATTTTAAAGT
1465	Table 3A	Hs.254105	BC004458	13325286	enolase 1, (alpha) (ENO1), mRNA /cds=(84,1398)	1	CCCTCCAGCCAATAGGCAGCTTTCTT
1466	Table 3A	Hs.155101	BC004521	13325447	mRNA for KIAA1578 protein, partial cds /cds=(0,3608)	1	AACATCCTACAAAGCCTTGGACC
1467	Table 3A	Hs.17132	BC004805	13937690	602326676F1 cDNA, 5' end /clone=IMAGE:4427970 /clone_end=5'	1	CGTGGTTGTGGGAGGGGAAAGAGGA
1468	Table 3A	Hs.103378	BC004872	13436100	hypothetical protein MGC11034 (MGC11034), mRNA /cds=(245,640)	1	AACAGAGCTAGTCAGATGTGAATTG
1469	Table 3A	Hs.151242	BC004900	13436172	serine (or cysteine) proteinase inhibitor, clade G (C1 inhibitor), member 1 (SERPING1), mRNA /cds=(60,1562)	1	ACAATGTGTTAGCAGAAACCAGTGGG
1470	Table 3A	Hs.74335	BC004928	13436256	heat shock 90kD protein 1, beta (HSPCB), mRNA /cds=(0,2174)	1	TTATAATGTAGAATGATGTGCTTT
1471	Table 3A	Hs.336916	BC004994	13436445	death-associated protein 6 (DAXX), mRNA /cds=(147,2369)	1	GCTAGATCCCCGGTGGTTTTGTGCTC
1472	Table 3A	Hs.60377	BC005101	13937700	mRNA for KIAA1298 protein, partial cds /cds=(55,2271)	1	AAAAATAAAAGCCTGAGTACCCCA
1473	Table 3A	Hs.99858	BC005128	13477308	ribosomal protein L7a (RPL7A), mRNA /cds=(31,831)	1	ACAAATTTCTTGGCTGGATTGAAGC
1474	Table 3A	Hs.177507	BC005187	13528770	hypothetical protein (HSPC155), mRNA /cds=(240,743)	1	TTAAACTCCTGTGGATTACATCA
1475	Table 3A	Hs.251531	BC005361	13529190	proteasome (prosome, macropain) subunit, alpha type, 4 (PSMA4), mRNA /cds=(59,844)	1	GCTGTGGTTGGTTGTCATTACATGACA
1476	Table 3A	Hs.100000	BC005928	13543538	S100 calcium-binding protein A8 (calgranulin A) (S100A8), mRNA /cds=(55,339)	1	CAGAAACTGTCTCTACCTCACG
1477	Table 3A	Hs.334573	BC006008	13937718	clone IMAGE:4285740, mRNA /cds=UNKNOWN	1	GCCCTGGTAGGCTCCTTTAGAAGGA
1478	Table 3A	Hs.101150	BC006176	13544094	clone IMAGE:4054156,	1	CCATTTCTGTTCTAGAGCTTAACCT
1479	Table 3A	Hs.108824	BC006282	13623362	hypothetical protein MGC10540 (MGC10540), mRNA /cds=(49,579)	1	TTTCCCTCTCTGTCTTGTGTGAA
1480	Table 3A	Hs.239884	BC006464	13623674	H2B histone family, member L (H2BFL), mRNA /cds=(0,380)	1	GGCAGTAACTAAGGGTGTCAAGC
1481	Table 3A	Hs.19574	BC006849	13905123	hypothetical protein MGC5469 (MGC5469), mRNA /cds=(69,1124)	1	AGACTGGAATGGGGATGAGGGGTGT
1482	Table 3A	Hs.252716	BC007004	13937807	oxysterol-binding protein-related protein 1 (FLJ10217), mRNA /cds=(174,3026)	1	AAATTGTATTGAAAAAGATCGCCAG
1483	Table 3A	Hs.180909	BC007063	13937906	peroxiredoxin 1 (PRDX1), mRNA /cds=(60,659)	1	CCATGAGTTGTTGGTTTTCCAGAAG
1484	Table 3A	Hs.238730	BC007203	13938171	hypothetical protein MGC10823 (MGC10823), mRNA /cds=(63,1235)	1	CTGACGATGAGATCCGCGCTCATCTG
1485	Table 3A	Hs.334637	BC007277	13938298	hypothetical protein MGC15619 (MGC15619), mRNA /cds=(744,1454)	1	GGGTGGCAATGTCCTGGGTCCTAAG
1486	Table 3A	Hs.298262	BE250027	9120132	ribosomal protein S19 (RPS19), mRNA /cds=(69,506)	1	AGTCTTTCTGGTTTCTGGAGATAACC
1487	Table 3A	Hs.297095	BE253125	9123276	601116648F1 cDNA, 5' end /clone=IMAGE:3357178 /clone_end=5'	1	CATCAATAAGAGCTGCTCTCTGG
1488	Table 3A	NA	BE253336	9123402	cDNA clone IMAGE:3357826 5'	1	CGATGATGGTTACCCTTCATGGACGT
1489	Table 3A	Hs.75313	BE254064	9124489	aldo-keto reductase family 1, member B1 (aldose reductase) (AKR1B1), mRNA /cds=(45,995)	1	CCTAATCTCCACACATCCCCCT
1490	Table 3A	Hs.314898	BE255377	9125816	601115405F1 cDNA, 5' end /clone=IMAGE:3355872 /clone_end=5'	1	GCCCCCTGGACATGTACCTGCAGAA
1491	Table 3A	Hs.296183	BE259480	9129916	601106571F1 cDNA, 5' end /clone=IMAGE:3342929 /clone_end=5'	1	TAATAAAGTCATCAATACCTAAAAA

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1492	Table 3A	Hs.301809	BE260041	9131017	601150579F1 cDNA, 5' end /clone=IMAGE:3503419 /clone_end=5'	1	TAATCTGGCGGGTTATACCCCGTGT TCTCCGGATTATATTTCCGGACAC
1493	Table 3A	Hs.308154	BE264584	9138121	601192330F1 cDNA, 5' end /clone=IMAGE:3536383 /clone_end=5'	1	GCTGGATTGTGGGTATGGGGGCGG TTTTTGGGCGAAGGTTGGTTGTAC
1494	Table 3A	Hs.279429	BE279328	9154319	601157666F1 cDNA, 5' end /clone=IMAGE:3504328 /clone_end=5'	1	CCACATCATCGGGGCGAAATAGAA GCCAGAGAGAGGCTAGGTGTAGGA
1495	Table 3A	Hs.95835	BE292793	9175433	RST8356 cDNA	1	AGGGAGACTCTCAGCCTTCAGCTTCC TAAATTCTGTGTCTGTGACTTTCCG
1496	Table 3A	Hs.142737	BE293343	9176462	601143756F1 cDNA, 5' end /clone=IMAGE:3051493 /clone_end=5'	1	TTGTCAAGTCTGCTGCTGTCTTCAAGA TCTACCTGGTCAGAACTCTCTCTGCT
1497	Table 3A	Hs.337986	BE297329	9180903	Homo sapiens, clone MGC:17431 IMAGE:2984883, mRNA, complete cds /cds=(1336,1494)	1	GGCCAGTCTCTATGTGTCTTAATCCC TTGTCTTCATTAAAGCAAAACT
1498	Table 3A	Hs.192755	BE298181	9181768	601118566F1 cDNA, 5' end /clone=IMAGE:3028193 /clone_end=5'	1	TCTCTCACATTCTGTCTTTCCCTCCT CCTTCACCTCCCTCCGTCCTC
1499	Table 3A	Hs.336628	BE311727	9148186	ribosomal protein L38a (RPL38A), mRNA /cds=(30,350)	1	ACACGAGACTATAGAGAATGCAGCAC ACAGATGAGAGCAGAGCAAAATAGA
1500	Table 3A	Hs.129872	BE379820	9325198	sperm associated antigen 9 (SPAG9), mRNA /cds=(110,2410)	1	GCATCCAGATGGTGGTTACTCTGCA ACAGTCTAATGTTCTTCACTTCCA
1501	Table 3A	Hs.231510	BE407125	9343575	601301818F1 cDNA, 5' end /clone=IMAGE:3636412 /clone_end=5'	1	GGGGTTTTACCCCTACCTAAAGATGC TTTAATTGCTGTTTTCCAAATTGT
1502	Table 3A	Hs.315263	BE410105	9348555	601302278F1 cDNA, 5' end /clone=IMAGE:3637002 /clone_end=5'	1	ATGCCTAACAAAGCAATGATCTCTAT AAATCCACCCCAAGCCAATCTGGT
1503	Table 3A	Hs.258494	BE531180	9759916	Homo sapiens, Similar to hypothetical protein FLJ22376, clone MGC:16044 IMAGE:3610443, mRNA, complete cds /cds=(478,1776)	1	CCACCATCTGGTACGTTTTTACTTCC TCACCCGCGTGTACTCCGATTACC
1504	Table 3A	Hs.13328	BE537908	9766464	602268829F1 cDNA, 5' end /clone=IMAGE:4356966 /clone_end=5'	1	GAGTATATTCCCCAGTTATTTGCTC TTCCCCACACAGGGTGGTAGTACC
1505	Table 3A	Hs.125819	BE538333	9766978	putative dimethyladenosine transferase (HSA9761), mRNA /cds=(78,1019)	1	CAAAGGAAGGGGCGTGAAGGGGTGA GAAAAATATGGGACCCAAATTGTGG
1506	Table 3A	Hs.5122	BE539096	9767741	602293015F1 cDNA, 5' end /clone=IMAGE:4387778 /clone_end=5'	1	TTTCCTTACAGGCGGTAAACCCGGTC CACACAGTTCTTGCCAAAAACAAG
1507	Table 3A	Hs.180549	BE540238	9768883	601059809F1 cDNA, 5' end /clone=IMAGE:3446283 /clone_end=5'	1	AATTTTCTCTCACCTCATCACTCGGG ACCTCCCCAGTGATAATAACCCGG
1508	Table 3A	Hs.155101	BE547584	9776229	mRNA for KIAA1578 protein, partial cds /cds=(0,3608)	1	GCGGGTGTAAAGGGGATATCTTGATAA ACTGGAGCCCAAGGAATTACAAA
1509	Table 3A	Hs.74861	BE549137	9777782	activated RNA polymerase II transcription cofactor 4 (PC4), mRNA /cds=(0,383)	1	ACGCCGACAATCAAGAAAAATGTAGT TATAACGACAGGTTGTATTATG
1510	Table 3A	NA	BE569141	9812881	cDNA clone IMAGE:3681180 5'	1	GATATTGGTAGTAAAGGGGTTACCTG TGAACCTTCCAAATTCCTTGGGGC
1511	Table 3A	NA	BE612847	9894444	601452239F1 5' end /clone=IMAGE:3856304	1	TAAAGATGTCGGGTACACTTCGCCA AGGGTTAGCGTCTTTGGGCATTTC
1512	Table 3A	Hs.194362	BE618004	9888942	DNA sequence from clone RP11- 248N8 on chromosome 13. Contains ESTs, STSs and GSSs. Contains two olfactory receptor pseudogenes, an NPM1 (nucleophosmin, nucleolar phosphoprotein B23, numatrin) pseudogene and a BCR (breakpoint cluster region) pseudogene /cds=(0,887)	1	TCCTAATTCTCTGTGAACCTTCTCA AATCCCCAGCATGCGGTAGTG
1513	Table 3A	Hs.294309	BE621121	9892059	601493943F1 cDNA, 5' end /clone=IMAGE:3896051 /clone_end=5'	1	CTGCATGATGTATCAACCTGCTGTA GTGCGGAAACGACCACAACACACA
1514	Table 3A	Hs.184582	BE730026	10144018	ribosomal protein L24 (RPL24), mRNA /cds=(39,512)	1	AAAGACGAACGAGACACGAAAGCAA CGAACGAACACAGAGCAGCCGCAC
1515	Table 3A	Hs.76572	BE730376	10144368	ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP5O), mRNA /cds=(36,677)	1	TTTCAACACGCATCCCTTATGGGCGA ACTGTCCTCAAAACAACAAGTG
1516	Table 3A	Hs.77496	BE737248	10151226	small nuclear ribonucleoprotein polypeptide G (SNRPG), mRNA /cds=(83,313)	1	TAGGACGAGAAACGAAGAAGGACAG AGCGAGAAACAGTAAGCAGGGACAC
1517	Table 3A	Hs.271272	BE737348	10151340	DKFZp434K1715_r1 cDNA, 5' end /clone=DKFZp434K1715 /clone_end=5'	1	GGTGGAGAATCAAAACGACCCCGCA AATAAACATGGCGATTGGCTGGG

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1518	Table 3A	Hs.58066	BE739287	10153279	602389077F1 cDNA, 5' end /clone=IMAGE:4517875 /clone_end=5'	1	TGGCCTTTTAAATAACTGGGCTTCTC ACAACCATAGTGAACAGAAACAGC
1519	Table 3A	Hs.127951	BE745645	10159637	hypothetical protein FLJ14503 (FLJ14503), mRNA /cds=(19,2217)	1	ATTGTGACATGGTGATGCCTCATTGC TGATATGGTCCTGTGGTTATGTGC
1520	Table 3A	Hs.276718	BE747210	10161202	601473284T1 cDNA, 3' end /clone=IMAGE:3876165 /clone_end=3'	1	GGAAGAGATAACACCACAACGAAAGA GCAGGCAAGAGAGACCAAGCACA
1521	Table 3A	Hs.285647	BE747224	10161216	cDNA FLJ14704 fis, clone NT2RP3000526 /cds=UNKNOWN	1	GGTAAAGGCGTTACTCTCCGCCCTC TTCAAGGAACGGCCAAGAGTATAA
1522	Table 3A	Hs.293842	BE748123	10162115	601571679F1 cDNA, 5' end /clone=IMAGE:3838675 /clone_end=5'	1	ACCCAAGGGTCTCGCCAGTGGGGTT AAGTCACAATATTACTACACAAGGG
1523	Table 3A	Hs.283674	BE778549	10199747	hypothetical protein MGC2495 (MGC2495), mRNA /cds=(0,416)	1	ACAGTACACAATCACCTGCAAGGGAC ATAGCACACAAACCGCTAAAGAGG
1524	Table 3A	Hs.61472	BE779284	10200482	601464557F1 cDNA, 5' end /clone=IMAGE:3867566 /clone_end=5'	1	TCTCACAGCGAGAGGAGGAGACGGG ATGACCGAGAGGTAGACGATTATAC
1525	Table 3A	Hs.43273	BE781009	10202207	602642428F1 cDNA, 5' end /clone=IMAGE:4773534 /clone_end=5'	1	CGCTGGTGTGTGCCCCAAGTGATTTA TTCTACTGGAGTGCCCTGGTGTCTT
1526	Table 3A	Hs.102558	BE781611	10202895	601467463F1 cDNA, 5' end /clone=IMAGE:3870902 /clone_end=5'	1	TTCCGGCTTTTAAACAAACACACCA CACTAACACAAACACACAAACAA
1527	Table 3A	Hs.40334	BE782824	10204022	602557448F1 cDNA, 5' end /clone=IMAGE:4686562 /clone_end=5'	1	AAGACTTGCCTCTTTAAATTGCTTTG TTTTCTGCAGTACTATCTGTGGT
1528	Table 3A	Hs.79914	BE783628	10204826	lumican (LUM), mRNA /cds=(84,1100)	1	GAAGCTCGTCCACTCTTCTCGGGCCAC TATTCTGGTTCAGGGAATCTGGG
1529	Table 3A	Hs.135056	BE786820	10208018	DNA sequence from clone RP5-850E9 on chromosome 20. Contains part of the gene for a novel C2H2 type zinc finger protein similar to Drosophila Scratch (Scr), Slug and Xenopus Snail, a novel gene similar to Drosophila CG6762, STSs, GSSs and five CpG islands /cds=(0,397)	1	AGCAATAAACCGAAGCAGCTAGACAG CGAAGAGTACAGCAAGAGACGA
1530	Table 3A	Hs.11355	BE788546	10209744	thymopoietin (TMPO), mRNA /cds=(204,2288)	1	CGCCCATACTAGAGAAGTTTGCCCTC TATTGTCTCTACACCACAATGAG
1531	Table 3A	Hs.75458	BE790474	10211672	ribosomal protein L18 (RPL18), mRNA /cds=(15,581)	1	CACAGACATCCACGGACACAAAGG CGGGGACCACCAACCAATGAACAC
1532	Table 3A	Hs.20225	BE792125	10213323	tuftelin-interacting protein (TIP39), mRNA /cds=(263,2776)	1	CGCTCGATTGATATCAGACAGCATCG TCTCTCGGAGCACAAGATCTGTT
1533	Table 3A	Hs.11607	BE794595	10215793	602429913F1 cDNA, 5' end /clone=IMAGE:4547787 /clone_end=5'	1	GGAACAGGGTTAATGGCCAGGCCCT TTGCCGCCCTTTTAAAGGAATCC
1534	Table 3A	Hs.58297	BE867841	10316617	CLL8 protein (CLLD8), mRNA /cds=(825,2984)	1	ACAGAGTAACATGGGATATGGGTATG AGTGGGATGTGCTGAGAAGGAAC
1535	Table 3A	Hs.179703	BE868389	10317165	tripartite motif protein 14 (TRIM14), mRNA /cds=(10,1230)	1	GGGGGCAAGAAAGTACATTGGGTG AAATTTTAAAGGTATGGGACATT
1536	Table 3A	NA	BE871962	10320738	601448005F1 cDNA, 5' end /clone=IMAGE:3852001	1	CAAACGAACAGCGAAGACAACAACCTC ACGATGCTGCACAACGCGACCAAC
1537	Table 3A	Hs.31314	BE872245	10321021	retinoblastoma-binding protein 7 (RBBP7), mRNA /cds=(287,1564)	1	ACATTTTATAAGGCATTGTGTGTAGCC ACTCAGTCATCTTTGGGTGCTGC
1538	Table 3A	Hs.47334	BE872760	10321536	hypothetical protein FLJ14495 (FLJ14495), mRNA /cds=(83,1141)	1	GTCACAGCAACGTGCTGCCCTCCCGAG ATCATTTATTAGCGTCGATTGTGT
1539	Table 3A	Hs.6820	BE875609	10324385	602418418F1 cDNA, 5' end /clone=IMAGE:4525397 /clone_end=5'	1	ATTCCAAACGGGATCTGCTGAGACCT CACAGAGGTGGGCCCGCATTATAA
1540	Table 3A	Hs.158164	BE876375	10325061	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) (TAP1), mRNA /cds=(30,2456)	1	CCTAGGGTGAAACACGTGACAGAAG AATAAAGACTATTGAATAGTCCTCT
1541	Table 3A	Hs.237868	BE877115	10325891	interleukin 7 receptor (IL7R), mRNA /cds=(22,1401)	1	CCAGCCTTTGCCTCTTCTTCAATGT GGTTTCCATGGGAATTTGCTTCAG
1542	Table 3A	Hs.24181	BE877357	10326133	601485590F1 cDNA, 5' end /clone=IMAGE:3887951 /clone_end=5'	1	CCCCTTGTTTACTCTGTCTGTATGTAT GTCAAAGCGTGGCAAAACCTCT
1543	Table 3A	Hs.237868	BE878973	10327749	Interleukin 7 receptor (IL7R), mRNA /cds=(22,1401)	1	CATGATCTCAGAGGAACTGTCGCTG ACCCTGGACATGGGTACGTTTGAC
1544	Table 3A	NA	BE879482	13959823	mitochondrion, complete genome	1	CCTCTACCTGCACGACATACATAAT GACCCACCAATCACATGCCTATCA
1545	Table 3A	NA	BE881113	10329889	cDNA clone IMAGE:3894306 5'	1	ATTTGGAAGCGCCACCCTAGCAAATA TACAAACCATTAACCTTCCCTCT
1546	Table 3A	Hs.323950	BE881351	10330127	zinc finger protein 6 (CMPX1) (ZNF6), mRNA /cds=(1265,3361)	1	TTTACCAATGATTTTCAGGTGACCTG GGCTAAGTCATTTAACTGGGTCT
1547	Table 3A	Hs.111554	BE882335	10331111	ADP-ribosylation factor-like 7 (ARL7), mRNA /cds=(14,592)	1	AGTTTACATATCGACGACATATCCAC TGATTTCTAAATGGGCTGGTCCCA
1548	Table 3A	NA	BE884898	10333674	cDNA clone IMAGE:3908551 5'	1	ATCTGGAGTGGGACCCCTTCAACCAT GTCTGTGCTATGCGGGAAACAAAT
1549	Table 3A	Hs.142838	BE886127	10340315	nucleolar protein interacting with the FHA domain of pK1-67 (NIFK), mRNA /cds=(54,935)	1	GCGGAGAGAAGAAGAGGTAGATATG AGAACAGTGTGTGTATATGATAGT

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1550	Table 3A	Hs.301486	BE886472	10340792	601509888F1 cDNA, 5' end /clone=IMAGE:3911301 /clone_end=5'	1	GAAATCCCACCGGCAAGTTAAGGTCA CGGAGCAAGTGAATAAACGCGGAG
1551	Table 3A	Hs.250824	BE887646	10343176	cDNA: FLJ23435 fis, clone HRC12631 /cds=UNKNOWN	1	GTGATCAAAACAAATTCACAGCACAGA CACCGCGCAACCAACGCAACTTCTC
1552	Table 3A	Hs.320836	BE888304	10344472	601514033F1 cDNA, 5' end /clone=IMAGE:3915177 /clone_end=5'	1	GGTATTTGTGTTGTGAGTATTGTGT CTGGGTGTGGGTATTGTATTCTTT
1553	Table 3A	Hs.169274	BE888744	10345354	AL528777 cDNA /clone=CS0DD001YG24-(3-prime)	1	GGGTTTCGTCCAGGGCTGCGCTAAAT TATTCTCAATGATTTGTCTCTTTGC
1554	Table 3A	Hs.71941	BE889075	10346019	hypothetical protein MGC15677 (MGC15677), mRNA /cds=(298,807)	1	CAATGACGCAGTCGACCCCTCGGAT CCAAGTCCTGCTTTGGGTGTGGACC
1555	Table 3A	Hs.188757	BE891242	10350376	Homo sapiens, clone MGC:5564, mRNA, complete cds /cds=(227,304)	1	GGGTTATAATAGATGGACCGGTCTTT CACGGTGGTGACAGCACCCCTTCC
1556	Table 3A	Hs.171802	BE891269	10350433	RST31551 cDNA	1	TCCGCTGCAATTTGAGTTTAGCTTTA CAGATTGTGCCGGGTGTTTAACTC
1557	Table 3A	Hs.4055	BE891928	10351744	mRNA; cDNA DKFZp564C2063 (from clone DKFZp564C2063) /cds=UNKNOWN	1	CTCCTTCCCAAAGACTTGAGTGAAC TTCCCTTTCATGTGCGTATCGGTC
1558	Table 3A	Hs.3297	BE895166	10358288	ribosomal protein S27a (RPS27A), mRNA /cds=(38,508)	1	AAATTAGTCGCCTTCGTGAGAGTGC CCTTCTGATGAATGTGGTGCTGGG
1559	Table 3A	NA	BE896691	10361375	cDNA clone IMAGE:3925082 5'	1	GACAGTACTCTAAGACCGGTGTGTG TGTCCCGATGAGATCATGACTGGG
1560	Table 3A	NA	NC_001807	13959823	COX2 gene of mitochondria	1	CATGCCCATCGTCTAGAAATTAATTC CCCTAAAAATCTTTGAAATAGGGC
1561	Table 3A	NA	BE899595	10367264	cDNA clone IMAGE:3952215 5'	1	GGCGTATCATCAACTGGTGAGCCCG AAGGGATATTATTTCTAAGGCCTCT
1562	Table 3A	Hs.285122	BE901218	10390179	Homo sapiens, hypothetical protein FLJ21839, clone MGC:2851 IMAGE:2967512, mRNA, complete cds /cds=(444,2618)	1	CCAGAAATCGTAAGGGGGCTGACGGA GGATGAGAGGGGGCACCCAGAGATC
1563	Table 3A	Hs.293515	BE905040	10397924	602286727T1 cDNA, 3' end /clone=IMAGE:4375662 /clone_end=3'	1	CGGTGTTTTCTGATCGGTTTTTGT CTGCTTACATATGATGTACTTGT
1564	Table 3A	Hs.278704	BE973840	10587176	RST30930 cDNA	1	ACAGAATGCACGCGTGCAACACCGG CAAGGTTCCACACGCCACAAAGAAA
1565	Table 3A	Hs.217493	D00017	219909	annexin A2 (ANXA2), mRNA /cds=(49,1068)	1	TGGAAGTGAAGTCTATGATGTGAAAC ACTTTGCCTCTGTGTACTGTGTC
1566	Table 3A	Hs.25	D00022	219653	Homo sapiens, Similar to ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide, clone MGC:19754 IMAGE:3629237, mRNA, complete cds /cds=(12,1601)	1	CCAAAAAGCTTCATTTTCTATATAGG CTGCAACAAGCCTTGATTGAAG
1567	Table 3A	Hs.76549	D00099	219941	mRNA for Na,K-ATPase alpha-subunit, complete cds /cds=(318,3389)	1	TCACAAGACAGTCATCAGAACCAGTA AATATCCGCTGCCAGTTCGATCA
1568	Table 3A	Hs.76549	D00099	219941	mRNA for Na,K-ATPase alpha-subunit, complete cds /cds=(318,3389)	1	TCACAAGACAGTCATCAGAACCAGTA AATATCCGCTGCCAGTTCGATCA
1569	Table 3A	Hs.154890	D10040	219899	fatty-acid-Coenzyme A ligase, long- chain 2 (FACL2), mRNA /cds=(13,2109)	1	GCTGTCAATTTGTACATTTAAAGCAGC TGTTTTGGGGTCTGTGAGAGTACA
1570	Table 3A	Hs.48	D10202	219975	platelet-activating factor receptor (PTAFR), mRNA /cds=(25,1053)	1	TATCCTGAGTCCCTTAATCTTATGGG GCCGGAAGGAATGTCAGGGCCAGG
1571	Table 3A	Hs.155342	D10495	520586	protein kinase C, delta (PRKCD), mRNA /cds=(58,2088)	1	CTCTGCCTTCGGAGGGAAATGTAA TCTGTGTTTCAATTACTGAATGT
1572	Table 3A	Hs.330716	D10522	219893	cDNA FLJ14368 fis, clone HEMBA1001122 /cds=UNKNOWN	1	AAACTCCTGCTTAAGGTGTTCTAATTT TCTGTGAGCACACTAAAGCGCAA
1573	Table 3A	Hs.137555	D10923	219866	putative chemokine receptor; GTP- binding protein (HM74), mRNA /cds=(60,1223)	1	GGGTGCACGTTCTCTGTTGTTCTTC GCTTGTGTTTCTGACTTACCAAA
1574	Table 3A	Hs.301921	D10925	219862	chemokine (C-C motif) receptor 1 (CCR1), mRNA /cds=(62,1129)	1	GGGGTTGGGAGGAAGTGTCTACTAG GAGGGTGGGTGAGATCTGTGTTGAT
1575	Table 3A	Hs.238893	D11086	303611	od15g01.s1 cDNA /clone=IMAGE:1368048	1	ATCTACCCCTCCGATTGTTCTGAACC GATGAGAAATAAAGTTTCTGTGA
1576	Table 3A	Hs.61153	D11094	219930	proteasome (prosome, macropain) 26S subunit, ATPase, 2 (PSMC2), mRNA /cds=(66,1367)	1	AAGTCTTATGCCAAATTCAGTGCTAC TCCTCGTTACATGACATACAACTG
1577	Table 3A	Hs.36	D12614	219911	lymphotoxin alpha (TNF superfamily, member 1) (LTA), mRNA /cds=(140,757)	1	CACACGGAGGCATCTGCACCCTCGA TGAAGCCCAATAAACCTCTTTTCTC
1578	Table 3A	Hs.333114	D13316	286022	AV713318 cDNA, 5' end /clone=DCAAAC09 /clone_end=5'	1	ACAACGTCGTGACTGGGAAAACCTT GGCGTTACCCCAATTAATCGCCTTG
1579	Table 3A	Hs.15071	D13627	286010	chaperonin containing TCP1, subunit 8 (theta) (CCT8), mRNA /cds=(28,1674)	1	CCAAGCCTCCAAGTGGGAAGAAGA CTGGGATGATGACCAAAATGATTGA
1580	Table 3A	Hs.195614	D13642	285998	splicing factor 3b, subunit 3, 130kD (SF3B3), mRNA /cds=(156,3809)	1	CAACTACTTGTGGCATGCATTGGCAC TCGGAATAAAGCGCACTATTGTCA
1581	Table 3A	Hs.2471	D13645	286008	KIAA0020 gene product (KIAA0020), mRNA /cds=(418,1944)	1	GAAGGGGTAGGGTCCACCATACTGG TAATTGGGGTACTCTGTATATGTGT

Table 8

1582	Table 3A	Hs.278573	D14041	2326266	H-2K binding factor-2 (LOC51580), mRNA /cds=(238,1500)	1	GCTCAGTTCCATATTTTCATCCGTGAA AAACTTGCAATACGACGAGTTTCA
1583	Table 3A	Hs.43910	D14043	219924	CD164 antigen, sialomucin (CD164), mRNA /cds=(79,648)	1	AATTGTCAATTTACCTGGGTATGAATTC CCTGACACACATTTCATGTCAACA
1584	Table 3A	Hs.111894	D14696	285962	lysosomal-associated protein transmembrane 4 alpha (LAPTM4A), mRNA /cds=(148,849)	1	GTGACTTGACTGTGGAAGATGATGGT TGCATGTTTCTAGTTTGTATATGT
1585	Table 3A	Hs.232068	D15050	457560	transcription factor 8 (represses interleukin 2 expression) (TCF8), mRNA /cds=(3,3377)	1	CAGTGTCTGTAATACAGACGGCAATGC AATAGCCTATTTAAAGAACTACGT
1586	Table 3A	Hs.279607	D16217	303598	calpastatin (CAST), mRNA /cds=(66,1358)	1	AGCTGGTGGATGGTGACTTTTGAAGA ACAAAAGGCTTTGGCAACAGAAAA
1587	Table 3A	Hs.146812	D16481	473711	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB), mRNA /cds=(46,1470)	1	TCTGTTGTCACTAAAGACTAAATGAG GGTTTGCAGTTGGGAAAGAGGTCA
1588	Table 3A	Hs.50651	D17042	598768	Janus kinase 1 (a protein tyrosine kinase) (JAK1), mRNA /cds=(75,3503)	1	GCGGAGTTGACCAAAATAATATCTGA GGATGATTGCTTTCCCTGCTGCC
1589	Table 3A	Hs.180828	D17391	440365	collagen, type IV, alpha 4 (COL4A4), mRNA /cds=(208,5280)	1	CATCTTGAACCTGGCCTGAGAACATT TTCTGGGAAGAGGTAAGGGTGACA
1590	Table 3A	Hs.178658	D21090	498147	RAD23 (S. cerevisiae) homolog B (RAD23B), mRNA /cds=(313,1542)	1	TCTGTGGAATCTCCTTCATTGGCATT GTTATTTAATCATAAACGGGGCAG
1591	Table 3A	Hs.75337	D21262	434764	mRNA for KIAA0035 gene, partial cds /cds=(0,2125)	1	TGTAAGTGTTCATGCTGACACAGATAT TTCAGTCTGCATGGTAAAGTTCT
1592	Table 3A	Hs.79768	D21853	434770	KIAA0111 gene product (KIAA0111), mRNA /cds=(214,1449)	1	TAATGGGGTTTATATGGACTTTCTTCT CATAAATGGCCTGCCCTCTCCCT
1593	Table 3A	Hs.334822	D23660	432358	Homo sapiens, Similar to ribosomal protein L4, clone MGC:2966 IMAGE:3139805, mRNA, complete cds /cds=(1616,2617)	1	ACCAAGAAACAGCCCTGAAAGAGAA GCCTGCAGAGAAGAACTACTAC
1594	Table 3A	Hs.75512	D23662	432362	neural precursor cell expressed, developmentally down-regulated 8 (NEDD8), mRNA /cds=(99,344)	1	AGTCTGTGTGCTTCCCTCTCTTATG ACTGTGTCCTGGTTGTCAATAAA
1595	Table 3A	Hs.35804	D25215	517114	hect domain and RLD 3 (HERC3), mRNA /cds=(166,3318)	1	ACCCACCACCTCTTGCACTCTCGCTT TTGGAGCAAGTTGCATTAACTATT
1596	Table 3A	Hs.173737	D25274	464185	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) (RAC1), transcript variant Rac1b, mRNA /cds=(0,635)	1	TGACAGTTGCAGAAATGTGGAGTGT TTTACATTGATCTTTTGCTAATGC
1597	Table 3A	Hs.172199	D25538	436217	adenylate cyclase 7 (ADCY7), mRNA /cds=(265,3507)	1	ATGACAGACACAGTATCTAACAAC AAACAAACAGTGACCTTCTCCATG
1598	Table 3A	Hs.82502	D26018	436221	mRNA for KIAA0039 gene, partial cds /cds=(0,1475)	1	GCAAGGGATAATACAAATCTATGAT CTCTATGCCCAATATGCTGCCATCA
1599	Table 3A	Hs.169303	D26121	785998	mRNA for ZFM1 protein alternatively spliced product, complete cds /cds=(382,624)	1	AGTACTTTTACAGCGTGGCCTTTCA CCATAATTTTATATTCTCCCT
1600	Table 3A	Hs.90315	D26488	452522	mRNA for KIAA0007 gene, partial cds /cds=(0,2062)	1	TCTTAAGAGCCAGAGCCATATAAGCA TCTTGGGAAAGCAAGTTTGAACCA
1601	Table 3A	Hs.17719	D28589	460714	EBP50-PDZ interactor of 64 kD (EPI64), mRNA /cds=(24,1550)	1	AAGCCGGTGCATGAGATTATATGGT AAAGTTAATTGACTAACAACCCCA
1602	Table 3A	Hs.198248	D29805	474986	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1 (B4GALT1), mRNA /cds=(72,1268)	1	AGGGGGCTGTGCTGTGATCTGGTGT CAAAACAGAACTGTATTTTGCCT
1603	Table 3A	Hs.79709	D30036	1060902	phosphatidylinositol transfer protein (PITPN), mRNA /cds=(216,1028)	1	GTTTCATAGCTTCTGCAACTTGACAG AGCCTGAGTTTGCTCTTGTGGG
1604	Table 3A	Hs.115263	D30783	2381480	epiregulin (EREG), mRNA /cds=(166,675)	1	CATATGGGAGAAGGGGAGTAATGA CTTGACAAACAGTATTCTGGTGT
1605	Table 3A	Hs.75416	D31787	505091	DAZ associated protein 2 (DAZAP2), mRNA /cds=(69,575)	1	ACATGTGATGTTTGACTGTACCATG ACTGTTATGGAAGTCTCAGCGTTGT
1606	Table 3A	Hs.3094	D31884	505095	KIAA0063 gene product (KIAA0063), mRNA /cds=(279,887)	1	TCTTGCTTTTATTCCTTTTGTGTG GCCTTGTGCTGCGTTTGTTTACA
1607	Table 3A	Hs.75249	D31885	505097	mRNA for KIAA0069 gene, partial cds /cds=(0,680)	1	AGTGTGTTTTCTCCTCTTTAATATTG CTGTGAACAGTGGTGCCCATTTGT
1608	Table 3A	Hs.3100	D32053	2368751	lysyl-tRNA synthetase (KARS), mRNA /cds=(40,1833)	1	AATTCTTGTGTGCTGCTTTCCATTGA CACCGCAGTTCTGTCTCAGCCATC
1609	Table 3A	Hs.181244	D32129	699597	major histocompatibility complex, class I, A (HLA-A), mRNA /cds=(0,1097)	1	GAGGTGTCTCCATCTCTGCCCTCACT TCATGGTGCAGTGAAGCTTAACCT
1610	Table 3A	Hs.89887	D38081	533325	thromboxane A2 receptor (TBXA2R), mRNA /cds=(991,2022)	1	TGAACCTCCAACAGGGAAGGCTCTGT CCAGAAAGGATGAATGTGAAACG
1611	Table 3A	Hs.138593	D38524	633070	5'-nucleotidase (purine), cytosolic type B (NT5B), mRNA /cds=(83,1768)	1	TATTTTCTTCAATCTTGTCTATTGGTC AATAGGGGAGGGTAGATTAGCTG
1612	Table 3A	Hs.77257	D38549	559702	Homo sapiens, Similar to selective hybridizing clone, clone MGC:13167 IMAGE:3163591, mRNA, complete cds /cds=(52,3813)	1	TCCCCTGCTTCCACTAAATCCAGTTG TGACAAAATCTAAGCTGACATCAG
1613	Table 3A	Hs.81848	D38551	1531549	RAD21 (S. pombe) homolog (RAD21), mRNA /cds=(184,2079)	1	ACCTGGTCAACTTAGCTTTTAAGCAG ACGATGCTGTAAAACTAACGGCT



Table 8

1614	Table 3A	Hs.81964	D38555	559716	SEC24 ( <i>S. cerevisiae</i> ) related gene family, member C (SEC24C), mRNA /cds=(114,3491)	1	ACCTGGGATGCCCTGCTCTGGACC TCTCAITTTCTCTCAITGGTTTATT
1615	Table 3A	Hs.78871	D42039	577290	mRNA for KIAA0081 gene, partial cds /cds=(0,702)	1	ATCTATCCTTGCCAGCCTTGGGCATC ACATTTTACCAGTTTAATAGATTGT
1616	Table 3A	Hs.75243	D42040	577292	bromodomain-containing 2 (BRD2), mRNA /cds=(1701,4108)	1	GCCCTGATCTGGAGTTACCTGAGGC CATAGCTGCCCTATTCACCTCTAAG
1617	Table 3A	Hs.79123	D42043	577298	mRNA for KIAA0084 gene, partial cds /cds=(0,1946)	1	CTTGACCAAAACCCACAGCCTGTCTCT TCTCTTGTGTAGTTACTTACGGCA
1618	literature	Hs.1560	D42045	577302	mRNA for KIAA0086 gene, complete cds /cds=(918,4040)	1	CCTTAGAAGAGGAAGCAAAGGCAGA TTCAGGGACCAAAAGGATTAAATGAT
1619	Table 3A	Hs.151791	D42054	577310	KIAA0092 gene product (KIAA0092), mRNA /cds=(53,1477)	1	ATGTGTCAACCAACCATTTTCTGCTATT AAAACTCCTGTTATCTCCTTGT
1620	Table 3A	Hs.129914	D43968	966996	AML1 mRNA for AML1b protein (alternatively spliced product), complete cds /cds=(1578,2939)	1	AGCCACCAAGGCCTCTCTCTCTTGT ACCACAGTTCTCTGTAAATCCA
1621	Table 3A	Hs.183706	D44640	1572115	HUMSUPY040 cDNA /clone=035-00-1	1	ACATGAAATATAGTTGCATATATGGA CACCGACTTGGGAGGACAGGTCTCT
1622	Table 3A	Hs.1119	D49728	1813881	nuclear receptor subfamily 4, group A, member 1 (NR4A1), mRNA /cds=(110,1908)	1	CTTTCAGCCTCTGCTGGGCTCTCT CTTCCTACCCTCTCCACATGTA
1623	Table 3A	Hs.83077	D49950	1405318	interleukin 18 (interferon-gamma-inducing factor) (IL18), mRNA /cds=(177,758)	1	AGATAGCCAGCCTAGAGGTATGGCT GTAACATCTCTGTGAAGTGTGAGA
1624	Table 3A	Hs.155543	D50063	971269	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mov34 homolog) (PSMD7), mRNA /cds=(83,1057)	1	TGGCATCCTCAGGGGTTGTGATCCA GCTCCATATATTGTTTACCTCAAAA
1625	Table 3A	Hs.182255	D50420	2618577	non-histone chromosome protein 2 ( <i>S. cerevisiae</i> )-like 1 (NHP2L1), mRNA /cds=(94,480)	1	CATGAGGAGAGTGCTAGTTCATGTGT TCTCCATTCTGTGAGCATCCTAA
1626	Table 3A	Hs.699	D50525	1167502	peptidylprolyl isomerase B (cyclophilin B) (PPIB), mRNA /cds=(21,671)	1	CAGCAAATCCATCTGAAGTGTGGAGG AGAAGCTCTCTTACTGAGGGTGC
1627	Table 3A	Hs.82028	D50683	1827474	mRNA for TGF-betaIIIR alpha, complete cds /cds=(1572,3275)	1	TCAGCATAAACTGGAATGTAGTGTCA GAGGATCTGTGGCTTGTGTTTGT
1628	Table 3A	Hs.90998	D50918	1469178	mRNA for KIAA0128 gene, partial cds /cds=(0,1276)	1	TGGTGAAACAAACCATGCTATTAGAA ATGGTCTGTGCTTTTATTTCCCA
1629	Table 3A	Hs.70359	D50926	1469194	genomic DNA, chromosome 21q22.2, PCR fragment from BAC clone:KB739C11, CBR1-HLCS region /cds=(0,2854)	1	ACTATGCTTTATTGGTCCCATGTTTGT TGCAATTTTAAAGAGATGGCTTT
1630	Table 3A	Hs.198899	D50929	1469200	eukaryotic translation initiation factor 3, subunit 10 (theta, 150/170kD) (EIF3S10), mRNA /cds=(113,4281)	1	AAAGATGAACTATTTGGTCTCATTGA AGCCAACACAGAACTTGCTGCTGT
1631	Table 3A	Hs.77152	D55716	1255816	minichromosome maintenance deficient ( <i>S. cerevisiae</i> ) 7 (MCM7), mRNA /cds=(544,2175)	1	GGAGCCCCCTCTTTCTCCCATGCTGCA CTTACTCCTTTTGTAATAAAAGT
1632	Table 3A	Hs.181418	D63486	1469885	KIAA0152 gene product (KIAA0152), mRNA /cds=(128,1006)	1	CCTTCCATGTCCCAACCCCACTCCAC CAAAAAGTACAAAATCAGGATGTT
1633	Table 3A	Hs.3195	D63789	1754608	small inducible cytokine subfamily C, member 1 (lymphotactin) (SCYC1), mRNA /cds=(20,364)	1	TGATGGTAACCATATGGAAGAGATT CTGGCTAGTGTCTATCAGAGGTGA
1634	Table 3A	Hs.274472	D63874	968887	high-mobility group (nonhistone chromosomal) protein 1 (HMG1), mRNA /cds=(52,699)	1	GTCCTGGTGGTATCTTCAATAGCCAC TAACCTGCCTGGTACAGTATGGG
1635	Table 3A	Hs.87726	D63876	961443	ADP-ribosylation factor-binding protein GGA3 (GGA3), mRNA /cds=(8,2080)	1	CCCAGCTCTGCTGCCCTTGTTTTGCT GCATGTTAAATAAAACCATTTTCA
1636	Table 3A	Hs.155595	D63878	961447	neural precursor cell expressed, developmentally down-regulated 5 (NEDD5), mRNA /cds=(258,1343)	1	CCCACACTGCTACACTTCTGATCCCC TTTGGTTTTACTACCAAACTCTAA
1637	Table 3A	Hs.182741	D64015	2281005	TIA1 cytotoxic granule-associated RNA-binding protein-like 1 (TIAL1), transcript variant 2, mRNA /cds=(157,954)	1	CTGTAATACCTCCTCTAACCAAGCC GGATATGGTATGGCAAGTTACCAA
1638	Table 3A	Hs.75232	D67029	1669536	SEC14 ( <i>S. cerevisiae</i> )-like 1 (SEC14L1), mRNA /cds=(303,2450)	1	CCCTTGTAAGGGAATCTGGGGCAG CTATGGTTTGAGTATGCAGTTTGCA
1639	Table 3A	Hs.155988	D78444	1945814	zinc finger protein homologous to Zfp103 in mouse (ZFP103), mRNA /cds=(922,2979)	1	ACAATCTCTGTCCAGCACCTCTTGGT TAAATAATGTATGCTGTGAGACAT
1640	Table 3A	Hs.80905	D79990	1136395	Ras association (Ra)GDS(AF-6) domain family 2 (RASSF2), mRNA /cds=(196,1178)	1	ACAGGGCCTCAGCAAGGGAGCCATA CATTTTGTGAACATTTTGATATGTT
1641	Table 3A	Hs.76666	D80005	1136425	mRNA for KIAA0183 gene, partial cds /cds=(0,3180)	1	TTGACTGTGATGGATTGTGGTGTGG TGATCTGAAGGCTATTGAATGCA
1642	Table 3A	Hs.322903	D80006	1136427	mRNA for KIAA0184 gene, partial cds /cds=(0,2591)	1	TTCTGTTCCAAACCAAGTATTCTGTAGA TCCAAATGGATTACCAAGTGTGCT
1643	Table 3A	Hs.79389	D83018	1827484	nel (chicken)-like 2 (NELL2), mRNA /cds=(96,2546)	1	ATCTTCAGAAATCAGTTAGTGTCTCTCA CTGCAAGAAATAAATGTGAGGCA
1644	Table 3A	Hs.89385	D83243	1304113	nuclear protein, ataxia-telangiectasia locus (NPAT), mRNA /cds=(34,4317)	1	TGAACCTTACTGCAAAAACCTTGAT GTAAGAAATTTGATGGTGTGGCA



Table 8

1645	Table 3A	Hs.12413	D83776	1228034	mRNA for KIAA0191 gene, partial cds /cds=(0,4552)	1	GCTGTCTCAAGGGTATCCGTACCTCA
1646	Table 3A	Hs.22559	D83781	1228044	mRNA for KIAA0197 gene, partial cds /cds=(0,3945)	1	TTGGTCAGATTTAGAAAGCATTTCATGC
1647	Table 3A	Hs.343517	D84224	7804467	methionine-tRNA synthetase (MARS), mRNA /cds=(23,2725)	1	TCACAAGTTTGGGAAAGTAAAA
1648	Table 3A	Hs.21899	D84454	1526437	protein translocase, JM26 protein, UDP-galactose translocator, pim-2 protooncogene homolog plm-2h, and shal-type potassium channel genes, complete cds; JM12 protein and transcription factor IGHM enhancer 3 genes, partial cds; and unknown gene /cds=(323,1504)	1	CCCTAAAGGCAAGAAAGAAAAAGTAAA
1649	Table 3A	Hs.300391	D85429	1816451	UI-H-BI4-aag-d-01-0-UI.s1 cDNA, 3' end /clone=IMAGE:3085848 /clone_end=3'	1	AGACCTTGGCTCATAGAAAGTCAC
1650	Table 3A	Hs.75842	D86550	1772437	mRNA for serine/threonine protein kinase, complete cds /cds=(1473,3737)	1	GTGTGTGCATGGAAGATGCCTGGGC
1651	Table 3A	Hs.36927	D86956	1503985	heat shock 105kD (HSP105B), mRNA /cds=(313,2757)	1	TGTCTTTGCTATGTAAATAGAGC
1652	Table 3A	Hs.17211	D86964	1504001	mRNA for KIAA0209 gene, partial cds /cds=(0,5530)	1	GCCTTGGCTTTATTTGCAGGCTACTA
1653	Table 3A	Hs.154332	D86967	1504007	KIAA0212 gene product (KIAA0212), mRNA /cds=(58,2031)	1	AAGCTGCTTTTACTTTGTAACTTT
1654	Table 3A	Hs.110613	D86974	1504021	PI-3-kinase-related kinase SMG-1 (SMG1), mRNA /cds=(132,9227)	1	ACAGTTTGGTTACAGGACTTCTGTGC
1655	Table 3A	Hs.199243	D86984	1504041	mRNA for KIAA0231 gene, partial cds /cds=(0,1430)	1	ATTGTAACATAAACAGCATGGAA
1656	Table 3A	Hs.79276	D86985	6634002	mRNA for KIAA0232 protein, partial cds /cds=(0,3836)	1	TGTGAAAGTGTGGAATGGAAGAAATG
1657	Table 3A	Hs.10315	D87432	1665758	solute carrier family 7 (cationic amino acid transporter, y+ system), member 6 (SLC7A6), mRNA /cds=(261,1808)	1	TCGATCCTGTTGTAAGTATTGTTG
1658	Table 3A	Hs.75912	D87446	1665780	mRNA for KIAA0257 gene, partial cds /cds=(0,5418)	1	ACAACCAACCCAGTTCTTTTCTAGCC
1659	Table 3A	Hs.154978	D87450	1665788	mRNA for KIAA0261 gene, partial cds /cds=(0,3865)	1	AATCATCTCTGAAGATTGCTGTT
1660	Table 3A	Hs.192966	D87454	1665798	mRNA for KIAA0265 gene, partial cds /cds=(0,1205)	1	GAACCTCCCTGATTCTATACCTCTTTC
1661	Table 3A	Hs.40888	D87468	1944419	mRNA for KIAA0278 gene, partial cds /cds=(0,1383)	1	CTTCTTTCTGCAAGGCAGAGGAAT
1662	Table 3A	Hs.77495	D87684	1663703	mRNA for KIAA0242 protein, partial cds /cds=(0,1590)	1	CACCCTCAGCTCCACCTCAGCAGAT
1663	Table 3A	Hs.75789	D87953	1598168	N-myc downstream regulated (NDRG1), mRNA /cds=(110,1294)	1	GATAATATCAAGACACCTGCCGAG
1664	Table 3A	Hs.75367	D89077	1694681	Src-like-adaptor (SLA), mRNA /cds=(41,871)	1	TTGGCCCTCAGGTTTACTGTGTAAT
1665	Table 3A	Hs.170311	D89878	3218539	heterogeneous nuclear ribonucleoprotein D-like (HNRPD), transcript variant 1, mRNA /cds=(580,1842)	1	CTGCATTTTGGTGGTAAATCCCT
1666	Table 3A	Hs.121102	D89974	5541649	vanin 2 (VNN2), mRNA /cds=(11,1573)	1	GCAATTCAGTTGAGACCATATGCATT
1667	Table 3A	Hs.73817	D90144	219905	gene for LD78 alpha precursor, complete cds	1	TTCTGTGCTGTTTGTACTTGAGGT
1668	Table 3A	Hs.218387	H03298	868231	tc88c11.x1 cDNA, 3' end /clone=IMAGE:2073236 /clone_end=3'	1	TTAACCCCTCAGAGAACTCTGCATTTT
1669	Table 3A	Hs.70258	H06786	870318	yl83g05.r1 cDNA, 5' end /clone=IMAGE:44737 /clone_end=5'	1	AGGGTACTTGAGGAGCTGAAT
1670	Table 3A	Hs.32149	H14103	878951	ym62a02.r1 cDNA, 5' end /clone=IMAGE:163466 /clone_end=5'	1	AGCGACCTCTTCTCTAGTCCGGTGTT
1671	Table 3A	Hs.94881	H51796	991637	602387586F1 cDNA, 5' end /clone=IMAGE:4516388 /clone_end=5'	1	ACGAACAGAAAGTTCTGAGTTGTGC
1672	Table 3A	Hs.178703	H56344	1004988	AV716627 cDNA, 5' end /clone=DCBBCH05 /clone_end=5'	1	TAAATGTCGGTCCAGGCCCTGTGCAC
1673	Table 3A	Hs.270192	H57221	1010053	ESTs	1	CTTACCCAGAGACAGACTCTTTT
1674	Table 3A	Hs.237146	H86841	1068420	mRNA for zinc finger protein RINZF (RINZF gene) /cds=(598,3141)	1	ATAAGGCTGTAAATGAGAATCTGC
1675	Table 3A	Hs.76807	J00194	188231	major histocompatibility complex, class II, DR alpha (HLA-DRA), mRNA /cds=(26,790)	1	CCCCTCACCTCTTACCCAGTACT
1676	Table 3A	Hs.251064	J02821	184229	high-mobility group (nonhistone chromosomal) protein 14 (HMG14), mRNA /cds=(150,452)	1	AAAAGTCGGGGATCGGGGCAAGAGA

Table 8

1677	Table 3A	Hs.62192	J02931	339501	coagulation factor III (thromboplastin, tissue factor) (F3), mRNA /cds=(123,1010)	1	TGCAGGAGACATTGGTATTCTGGGCA GCTTCCTAATATGCTTTACAATCT
1678	Table 3A	Hs.1513	J03171	184645	Interferon (alpha, beta and omega) receptor 1 (IFNAR1), mRNA /cds=(78,1751)	1	TCATCCCCGAGAATTGGCTTCCACA TCACAGTATCTACCCTTACATGGT
1679	Table 3A	Hs.317	J03250	339805	topoisomerase (DNA) I (TOP1), mRNA /cds=(247,2544)	1	GGCATTGTTAGTTTAGTGTGTGTGCA GAGTCCATTTCACACATCTTTCCT
1680	Table 3A	Hs.81118	J03459	187172	leukotriene A4 hydrolase (LTA4H), mRNA /cds=(68,1903)	1	GACTGCAATGCTGGTGGGGAAAGAC TTAAGAGTGGATTAAAGACCTGCGT
1681	Table 3A	Hs.177766	J03473	337423	ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase) (ADPRT), mRNA /cds=(159,3203)	1	GCTTTTCTTCTCCAGGAATACTGAAC ATGGGAGCTCTTGAAATATGTAGT
1682	Table 3A	Hs.73792	J03565	181919	complement component (3d/Epstein Barr virus) receptor 2 (CR2), mRNA /cds=(69,3170)	1	TGGGAATCAAGATTTAATCCTAGAGA TTTGGTGACAATTCAGGCTTTGG
1683	Table 3A	Hs.727	J03634	181946	inhibin, beta A (activin A, activin AB alpha polypeptide) (INHBA), mRNA /cds=(85,1365)	1	GCAGTAGTGTGGACTAGAACACCCA AATAGCATCTAGAAAGCCATGAGT
1684	Table 3A	Hs.86948	J03798	338264	small nuclear ribonucleoprotein D1 polypeptide (16kD) (SNRPD1), mRNA /cds=(150,509)	1	TGTGTAATGTACCTGTGTCAGTGCCTCC TTTATTAGGGGTTCTTTGAGAAT
1685	Table 3A	Hs.75703	J04130	178017	small inducible cytokine A4 (homologous to mouse Mip-1b) (SCYA4), mRNA /cds=(108,386)	1	CCACTGTCAGTGTCTCTGCTGTGTC CAAATACATGGATAACACATTGGA
1686	Table 3A	Hs.1799	J04142	619799	CD1D antigen, d polypeptide (CD1D), mRNA /cds=(164,1171)	1	AGTTTGCCCTGGAGTGCATATTGGCA GTTGGAGGACACAGTTTCTATTGT
1687	Table 3A	Hs.298469	J04144	178285	dipeptidyl carboxypeptidase 1 (angiotensin I converting enzyme) (ACE), mRNA /cds=(22,3942)	1	CCAAGTTCACATTCTCTTAGCGGTG CCTACATCAGGTACTTTGTCAGC
1688	Table 3A	Hs.176663	J04162	183036	leukocyte IgG receptor (Fc-gamma-R) mRNA, complete cds /cds=(17,718)	1	AGCTGTCTCCTGTTTTGTAAGCTTTC AGTGCAACATTCTTGTTCCAAT
1689	Table 3A	Hs.62954	J04755	182512	ferritin, heavy polypeptide 1 (FTH1), mRNA /cds=(91,683)	1	TGCATGTTGGGGTTTCTTTACCTTTT CTATAAGTTGTACCAAAACATCC
1690	Table 3A	Hs.288156	J05016	181507	cDNA: FLJ21819 fis, clone HEP01185 /cds=UNKNOWN	1	GGGTTTGTGCTATACACTGGGATGTC TAATTGCAGCAATAAAGCCTTTCT
1691	Table 3A	Hs.80758	J05032	179101	aspartyl-tRNA synthetase (DARS), mRNA /cds=(93,1595)	1	GCCACACTTATCTTTTCAGTAACCT GCTAGTGCACAGGCTGTACTTTAG
1692	Table 3A	Hs.850	J05272	186393	IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA /cds=(600,2144)	1	CAGTCGAAGGCTTTAAGCTTTGCACAC TTGGGATCACAGTTGCGTCATTGT
1693	Table 3A	Hs.84298	K01144	188469	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated) (CD74), mRNA /cds=(7,705)	1	TTCCCTTTCCCGAGCATCACTCCCCA AGGAAGAGCCAATGTTTTCCACCC
1694	Table 3A	Hs.79070	K02276	188927	v-myc avian myelocytomatosis viral oncogene homolog (MYC), mRNA /cds=(558,1877)	1	AGCCATAATGTAAACTGCCTCAAATT GGACTTTGGGCATAAAAGAACTTT
1695	Table 3A	Hs.1290	K02766	179725	complement component 9 (C9), mRNA /cds=(4,1683)	1	TTGCTTTTACTAGTCTTAGCTCTACGA TTTAAATCCATGTGTCCAAGGGG
1696	Table 3A	Hs.303157	K02885	338928	mRNA for T-cell specific protein /cds=(37,975)	1	CACACCTGCACACTCACGGCTGAAAT CTCCTTAACCCAGGGGACCTTAG
1697	Table 3A	Hs.21595	L03426	340386	DNA segment on chromosome X and Y (unique) 155 expressed sequence (DXYS155E), mRNA /cds=(166,1323)	1	AGCTGTAACGTTGCGGTAGGAAAGA TGGTGTTTATCCAGTTTGCAATT
1698	Table 3A	Hs.199160	L04731	339921	translocation T(4:11) of ALL-1 gene to chromosome 4 /cds=UNKNOWN	1	AGGGGTTCCACTAGTGTCTGCTTTCC TTTATTATTCAGTGTGTGAGGTT
1699	Table 3A	Hs.234569	L05148	340038	protein tyrosine kinase related mRNA sequence /cds=UNKNOWN	1	CATCCTCAGGTGGTCAGGCGTAGAT CACCAGAATAAACCCAGCTTCCCTC
1700	Table 3A	Hs.75528	L05425	179284	nucleolar GTPase (HUMAUANTIG), mRNA /cds=(79,2274)	1	ACACACAACGTGAAAAATAGGAACAG GAACAAAAAGAACCAATGACTC
1701	Table 3A	Hs.284192	L06132	340198	clone HQ0072 /cds=UNKNOWN	1	TTTAGAGTCTTCCATTTTGTGGAATT AGATCCTCCGCTTCAAATGCTGT
1702	Table 3A	Hs.1845	L06175	189448	MHC class I region ORF (P5-1), mRNA /cds=(304,735)	1	CTAATTTTCAGTGCTGTGCTTTGGTGT TFCAGGGCCATTTTCAGGTTTGGGT
1703	Table 3A	Hs.75348	L07633	186512	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha) (PSME1), mRNA /cds=(92,841)	1	CCAGATTTTCCCAAACCTTGCTTCTG TTGAGATTTTCCCTCACCTTGCC
1704	Table 3A	Hs.324278	L08048	184250	mRNA; cDNA DKFZp566M063 (from clone DKFZp566M063) /cds=UNKNOWN	1	TGGGGGTTGTAAATTGGCATGGAAT TTAAGCAGGTTCTTGTGGTGCA
1705	Table 3A	Hs.94	L08069	306713	heat shock protein, DNAJ-like 2 (HSJ2), mRNA /cds=(82,1275)	1	AGTGGGTGTTTCAGTGTACAGACCTCTT AATGGCCAGTGAATAACACTCACT
1706	Table 3A	Hs.99899	L08096	307127	tumor necrosis factor (ligand) superfamily, member 7 (TNFSF7), mRNA /cds=(137,718)	1	GGGGGTAGTTTGTGGCAGGACAAGA GAAGGCATTGAGCTTTTCTTTCAT
1707	Table 3A	Hs.1652	L08176	183484	chemokine (C-C motif) receptor 7 (CCR7), mRNA /cds=(66,1202)	1	TCGTTAAGAGAGCAACATTTTACCCA CACACAGATAAAGTTTCCCTTGA
1708	Table 3A	Hs.211578	L10717	307507	IL2-inducible T-cell kinase (ITK), mRNA /cds=(2021,3883)	1	CCCTATCCCGCAAAATGGGCTTCTCTG CCTGGGTTTTCTCTCTCACATT

Table 8

1709	Table 3A	Hs.3069	L11068	307322	heat shock 70kD protein 98 (mortalin-2) (HSPA9B), mRNA /cds=(29,2068)	1	AAACAAGGTAGGAATGAGGCTAGAC CTTTAACTTCCCTAAGGCATACCTTT
1710	Table 3A	Hs.3446	L11284	307183	mitogen-activated protein kinase kinase 1 (MAP2K1), mRNA /cds=(72,1253)	1	TTCCCATATCCAAGTACCAATGCCTG TTGTAACACACGGTGTATAGTGCTT
1711	Table 3A	Hs.1183	L11329	559539	dual specificity phosphatase 2 (DUSP2), mRNA /cds=(85,1029)	1	TGAGCCTTTCACACCTGTGCTGGCGC TGGAAATTTATTTGTCTCAGCTG
1712	Table 3A	Hs.220	L11695	431034	transforming growth factor, beta receptor I (activin A receptor type II-like kinase, 53kD) (TGFBRI), mRNA /cds=(76,1587)	1	TGGGATTGTACTATACCAGTAAGTGC CACTTCTGTGTCTTTCTAATGGAA
1713	Table 3A	Hs.150395	L12052	179892	cAMP phosphodiesterase PDE7 (PDE7A1) mRNA, complete cds /cds=(50,1498)	1	TTTTTCTCACAGGAGCGGAAGAAGCT AGGGGGAGCAGGAGCTGCAATGCG
1714	Table 3A	Hs.104125	L12168	178083	adenylyl cyclase-associated protein (CAP), mRNA /cds=(62,1489)	1	TCTACCCATTTCTGAGCGCTGTGGA AATAAACCTTTATGTACTTAAAGT
1715	Table 3A	Hs.78944	L13463	292054	regulator of G-protein signalling 2, 24kD (RGS2), mRNA /cds=(32,667)	1	GTGTCCGTTATGAGTGCCAAAATCT GTCTTGAAGGCAGCTACACTTTGA
1716	Table 3A	Hs.258850	L14542	292360	killer cell lectin-like receptor subfamily C, member 3 (KLRC3), transcript variant NKG2-E, mRNA /cds=(45,767)	1	CTGTGCAATGCTACATGTACGTGGAC TTATATCAGACCAGTGTGGATCTT
1717	Table 3A	Hs.181125	L21961	405227	Homo sapiens, clone MGC:12849 IMAGE:4308973, mRNA, complete cds /cds=(24,725)	1	AGTCCCCTGTCTGGTCTATCTACAA GATAACAAGCGGCCCTCAGGGATC
1718	Table 3A	Hs.247824	NM_005214	291928	cytotoxic T-lymphocyte-associated protein 4 (CTLA4), mRNA /cds=(0,671)	1	GGGTCTATGTGAAATGCCCCCAACA GAGCCAGAATGTGAAAAGCAATTT
1719	Table 3A	Hs.179881	L20298	388306	core-binding factor, beta subunit (CBFB), transcript variant 2, mRNA /cds=(11,559)	1	CTTGCCCTTAAGCTACCAGATTGCTTT TGCCACCATTGGCCACTACTGTGTG
1720	Table 3A	Hs.83656	L20688	404044	Rho GDP dissociation inhibitor (GDI) beta (ARHGDI3), mRNA /cds=(152,757)	1	CCCCTGCCAGAGGGAGTTCTTCTTTT GTGAGAGACACTGTAAACGACACA
1721	Table 3A	Hs.89582	L20814	493133	glutamate receptor, ionotropic, AMPA 2 (GRIA2), mRNA /cds=(160,2811)	1	TGCAGCCACTATTGTAGTCTCTTGA TTCATAATGACTTAAGCACACTTG
1722	Table 3A	Hs.181125	L22009	347313	Homo sapiens, clone MGC:12849 IMAGE:4308973, mRNA, complete cds /cds=(24,725)	1	TGACTATTACTGTACGGCGTGGGACA CCAACACTGCGGTATTCGGCGGAG
1723	Table 3A	Hs.245710	L23332	408689	heterogeneous nuclear ribonucleoprotein H1 (H) (HNRPH1), mRNA /cds=(72,1421)	1	TTTGAGACGCAATACCAATACTTAGG ATTTTGGTCTTGGTGTTTGTATGA
1724	Table 3A	Hs.79117	L23320	410217	mRNA for corticotrophin releasing factor receptor /cds=(226,1473)	1	TCCTTCCAGGGCTTCTTTGTGTCTGT GTTCTACTGTTTCTCAATAGTGA
1725	Table 3A	Hs.79117	L24498	403127	mRNA for corticotrophin releasing factor receptor /cds=(226,1473)	1	CCATGTCCATCCCCACCTCCCCAACCC CGTGTGAGCTTTCACAGCATCAAG
1726	db mining	Hs.80409	NM_021998	11527399	gadd45 gene, complete cds /cds=(2327,2824)	1	TGCCCTCAAGTAAAGAAAAGCCGAA AGGGTTAATCATATTTGAAAACCA
1727	Table 3A	Hs.326801	L25124	435049	DNA sequence from PAC 75N13 on chromosome Xq21.1. Contains ZNF6 like gene, ESTs, STSs and CpG islands /cds=(567,2882)	1	ATGCTACTTGGGAGAAAACCTCTCACT AAGTGTCTCACCGGGTTTCAAAGC
1728	Table 3A	Hs.199248	L25080	407696	prostaglandin E receptor 4 (subtype EP4) (PTGER4), mRNA /cds=(388,1854)	1	GGACTTTGCGAATATCAGAGACCTCA GACTCTTCACAGGCTCAGGACTCA
1729	Table 3A	Hs.199248	L25851	4406707	prostaglandin E receptor 4 (subtype EP4) (PTGER4), mRNA /cds=(388,1854)	1	AGCTCCCTGCAAGTCACATTTCCAG TGAAACACTGAACCTATCAGAAAA
1730	Table 3A	Hs.241545	L25931	438638	Homo sapiens, Similar to hypothetical protein, clone MGC:1824 IMAGE:3509518, mRNA, complete cds /cds=(533,1504)	1	TTCCTTCAGGATGATCTAGAGCAGCA TGGAGCTGTTGGTAGAATATTAGT
1731	Table 3A	Hs.152931	L29218	632967	lamin B receptor (LBR), mRNA /cds=(75,1922)	1	GGGGAGGAAGGAAGGACATTAAATT CTTTCCCTGGTAATGAAAAGAGCCC
1732	Table 3A	Hs.73986	L26953	537529	CDC-like kinase 2 (CLK2), transcript variant phck2, mRNA /cds=(129,1628)	1	GCCTGTACATAATACTATTCCATCCA CACAGTTTCCACCCTCACCTGCC
1733	Table 3A	Hs.29877	L27071	951045	TXK tyrosine kinase (TXK), mRNA /cds=(86,1669)	1	AGCAAGATAGCCAAATGTGACATCAA GCTCCATTGTTTCGGAATCCAGG
1734	Table 3A	Hs.73986	L42572	1160962	CDC-like kinase 2 (CLK2), transcript variant phck2, mRNA /cds=(129,1628)	1	GCCGAGTGAGGTAAACAGGTGGCAT CTACCCCATGTTTATAAGGAATTT
1735	Table 3A	Hs.78504	L29348	460282	Inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA /cds=(92,2368)	1	TTCTTTCCATTGCTATCATGTCAAGT AACGCCAGGAGTGCTTTCTTTGC
1736	Table 3A	Hs.1742	L33075	536843	IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA /cds=(467,5440)	1	TGAATTTACTTCTCCCAAGAGTTTG GACTGCCCGTCAGATTGTTTCTGC
1737	Table 3A	Hs.137232	L33842	602457	yq19a04.r1 cDNA, 5' end /clone=IMAGE:274063 /clone_end=5'	1	ACCCTCATTTCCAGGGGGAGCCCTCA GGCCCCGAGATAAATGTGCTCCATG

Table 8

1738	Table 3A	Hs.1697	L35249	522192	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump), beta polypeptide, 56/58kD, isoform 2 (ATP6B2), mRNA /cds=(25,1560)	1	TTCTCTGAGGGCTGGGGGTTGGGGG AGTCAGCATGATTATATTTTAATGT
1739	Table 3A	Hs.79107	L35263	603916	mitogen-activated protein kinase 14 (MAPK14), mRNA /cds=(362,1444)	1	ACTTGCGTGTAAATCAGTTATGCCGTA TAGGATGTCAGACAATACCACTGG
1740	Table 3A	Hs.75217	L36870	685175	mitogen-activated protein kinase kinase 4 (MAP2K4), mRNA /cds=(9,1208)	1	TGGAGCTCAGTAACATAACTGCTTCT TGGAGCTTTGGAATATTTTATCCT
1741	Table 3A	Hs.83086	L38935	1008845	GT212 mRNA /cds=UNKNOWN	1	AAATTTACAAGCAATACTTTGGACC ACTGGGGTTCAGGCCCAAGAAAT
1742	Table 3A	Hs.180446	L38951	893287	importin beta subunit mRNA, complete cds /cds=(337,2967)	1	ACACACAAAACAGCAAACTTCAGGTA ACTATTTTGGATTGCAACAGGAT
1743	Table 3A	Hs.41726	L40377	1160926	serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 8 (SERPINB8), mRNA /cds=(83,1207)	1	TCTTGCCCTTAATTACATTCCTGTGA CCTAGTTGGTGCAGTGGCTTGAA
1744	Table 3A	Hs.155079	L42373	1000887	protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A), mRNA /cds=(571,2031)	1	ACTTGCACTGTGTGGAAAACGTGTT TGTAATGAAGATCTTCATTGGGG
1745	Table 3A	Hs.78504	L78440	1479978	inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA /cds=(92,2368)	1	TGTGATCTCTACTACTGTTGATTTTGC CCTCGGAGCAAACTGAATAAAGC
1746	Table 3A	Hs.80642	L47345	992562	signal transducer and activator of transcription 4 (STAT4), mRNA /cds=(81,2327)	1	TAGGAAATGTTTGACATCTGAAGCTC TCTTCACACTCCCGTGGCACTCCT
1747	Table 3A	Hs.75678	L49169	1082037	FBJ murine osteosarcoma viral oncogene homolog B	1	CGTCCCTCTCCCTTGGTCTGCAC TGTTGCCAATAAAAGCTCTTAA
1748	Table 3A	Hs.80642	M11353	184092	signal transducer and activator of transcription 4 (STAT4), mRNA /cds=(81,2327)	1	GGGAGTGTGTGACTGAAATGCTTGA AACCAGCTTCAGATAAACTTGC
1749	Table 3A	Hs.181307	M10901	183032	H3 histone, family 3A (H3F3A), mRNA /cds=(374,784)	1	AGGGGACAGAAATCAGGTATTGGCA GTTTTCCATTTTCATTTGTGTGTG
1750	Table 3A	Hs.198253	M11124	188109	major histocompatibility complex, class II, DQ alpha 1 (HLA-DQA1), mRNA /cds=(43,810)	1	AGCCGCCAGCTACCTAATTCCTCAG TAACATCGATCTAAATCTCCATG
1751	Table 3A	Hs.181307	M12679	187911	H3 histone, family 3A (H3F3A), mRNA /cds=(374,784)	1	ACATGCAAGTACATGTTTTAATGTTG TCTGTCTTCTGTGCTTCTCTGT
1752	Table 3A	Hs.277477	M11717	184418	major histocompatibility complex, class I, C (HLA-C), mRNA /cds=(0,1100)	1	CCTGTGTGGGACTGAGATGCAAGAT TTCTTCACACCTCTCCTTTGTGACT
1753	Table 3A	Hs.277477	M12824	339426	major histocompatibility complex, class I, C (HLA-C), mRNA /cds=(0,1100)	1	GGCATCTGAATGTGTCTGCGTTCCTG TTAGCATAATGTGAGGAGGTGGAG
1754	Table 3A	Hs.85258	M14328	182113	CD8 antigen, alpha polypeptide (p32) (CD8A), mRNA /cds=(65,772)	1	CTGAGAGCCCAAACCTGCTGCCCAAA CATGCACTTCCTTGCTTAAGGTAT
1755	Table 3A	Hs.254105	M12824	339426	enolase 1, (alpha) (ENO1), mRNA /cds=(94,1398)	1	AAGCTCCCTGGAGCCCTGTTGGCAG CTCTAGCTTTTGCAGCTGTGTAATG
1756	Table 3A	Hs.122007	M12888	338836	qn52b08.x1 cDNA, 3' end /clone=IMAGE:1901847 /clone_end=3'	1	AGCCCTCTTCTCTCCACCCAATGCT GCTTTCTCCTGTTTCATCCTGATGG
1757	Table 3A	Hs.82085	M14083	189566	serine (or cysteine) proteinase inhibitor, clade E (nexin), plasminogen activator inhibitor type 1, member 1 (SERPINE1), mRNA /cds=(75,1283)	1	TCCACAGGGGTGGTGCAAAATGCTAT TGAAATTGTTGAATTGTATGCT
1758	Table 3A	Hs.254105	M15182	183232	enolase 1, (alpha) (ENO1), mRNA /cds=(94,1398)	1	GCTAGATCCCGGTGGTTTTGTGCTC AAAATAAAAAGCCTCAGTGACCCA
1759	Table 3A	Hs.183668	M14648	340306	glucuronidase, beta (GUSB), mRNA /cds=(26,1981)	1	GACTTCCACAGCAGCAGAACAGTG CCTCCTGGACTGTTACGGCAGACC
1760	Table 3A	Hs.1416	M15059	182447	Fc fragment of IgE, low affinity II, receptor for (CD23A) (FCER2), mRNA /cds=(213,1178)	1	TATCCCCAGCTCAGGTGGTGAGTCCCT CCTGTCCAGCCTGCATCAATAAAA
1761	Table 3A	Hs.183668	M15330	186283	glucuronidase, beta (GUSB), mRNA /cds=(26,1981)	1	CTGGGTTTTGTGGTCACTATTCTAG CAGGGAACACTAAAGGTGGAATA
1762	Table 3A	Hs.126256	M15353	306486	Interleukin 1, beta (IL1B), mRNA /cds=(86,895)	1	AGCTATGGAATCAATTCAATTTGGAC TGGTGTGCTCTCTTTAAATCAAGT
1763	Table 3A	Hs.79306	M16342	184266	eukaryotic translation initiation factor 4E (EIF4E), mRNA /cds=(18,671)	1	TGGCTCAAGTAGAAAAGCAGTCCCAT TCATATTAGACAGTGTACAAAAC
1764	Table 3A	Hs.182447	M15796	181271	heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRPC), transcript variant 1, mRNA /cds=(191,1102)	1	AGCTCTTGAAGCAGCTTTGAGTTAG AAGTATGTGTGTACACCTCACA
1765	Table 3A	Hs.80887	M16038	187268	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog (LYN), mRNA /cds=(297,1835)	1	AACCGGATATACATAGCATGACAT TTCCTTGTGCTTTGGCTTACTTGT
1766	Table 3A	Hs.89476	M16336	180093	CD2 antigen (p50), sheep red blood cell receptor (CD2), mRNA /cds=(6,1061)	1	AGCCTATCTGCTTAAGAGACTCTGGA GTTTCTTATGTGCCCTGGTGGACA
1767	Table 3A	Hs.182447	M16342	188352	heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRPC), transcript variant 1, mRNA /cds=(191,1102)	1	AAAGTTGATACTGTGGGATTTTGTG AACAGCTGATGTTTGGGACCTTT

Table 8

1768	Table 3A	Hs.318720	M16660	184420	Homo sapiens, clone MGC:12387 IMAGE:3933019, mRNA, complete cds /cds=(63,863)	1	CTTCCTTAGCTCCTGTTCTTGGCCTG AAGCCTCACAGCTTTGATGGCAGT
1769	Table 3A	Hs.318720	M16942	188352	Homo sapiens, clone MGC:12387 IMAGE:3933019, mRNA, complete cds /cds=(63,863)	1	TTTGTGCTTCCCTTTACCTAAAGTGTG CTGCCTCCCATGCATCTGTACCC
1770	Table 3A	Hs.318720	M16942	188437	Homo sapiens, clone MGC:12387 IMAGE:3933019, mRNA, complete cds /cds=(63,863)	1	TTTGTGCTTCCCTTTACCTAAAGTGTG CTGCCTCCCATGCATCTGTACCC
1771	Table 3A	Hs.308026	M16967	182411	major histocompatibility complex, class II, DR beta 5 (HLA-DRB5), mRNA /cds=(29,829)	1	CTTGTGGCTTCCTCAGCTCCTGCCCT TGGCCTGAAGTCCCAGCATTGATG
1772	Table 3A	Hs.75709	M16985	187282	mannose-6-phosphate receptor (cation dependent) (M6PR), mRNA /cds=(170,1003)	1	ATTTGTTTGCATCCCTCCCCACACC CTGGTGTITTTAAATGAAGAAAAA
1773	Table 3A	Hs.21858	M17783	183063	trinucleotide repeat containing 3 (TNRC3), mRNA /cds=(517,1356)	1	CATCCGACATAATCCTACAGGTGCTG TGTATTTCATGGGGCAGATAAACA
1774	Table 3A	Hs.694	M20137	186328	interleukin 3 (colony-stimulating factor, multiple) (IL3), mRNA /cds=(9,467)	1	AGTGGGGTGGGGAGCATGTTCAATT GTACCTCGAGTTTTAACTGGTTCC
1775	Table 3A	Hs.308026	M20430	187182	major histocompatibility complex, class II, DR beta 5 (HLA-DRB5), mRNA /cds=(29,829)	1	CCTAAACCGTATGGCCTCCCGTGCAT CTGTATTCACCCTGTATGACAAAC
1776	Table 3A	Hs.82848	M20681	183684	selectin L (lymphocyte adhesion molecule 1) (SELL), mRNA /cds=(88,1206)	1	TTTCATCTCAGGCCTCCCTCAACCCC ACCACTCTTTTATAACTAGTCTCT
1777	Table 3A	Hs.237519	M20867	183059	yz35c09.s1 cDNA, 3' end /clone=IMAGE:285040 /clone_end=3'	1	GCATGGCTTAACCTGGTGATAAAAAGC AGTTATTTAAAGTCTACGTTTTCC
1778	Table 3A	Hs.241392	M21121	339420	small inducible cytokine A5 (RANTES) (SCYA5), mRNA /cds=(26,301)	1	AGCTTCGGCGCTCTCAACCCCTCACA GGAGCTTACTGGCAAACATGAAAA
1779	literature	Hs.76422	M22430	190888	phospholipase A2, group IIA (platelets, synovial fluid) (PLA2G2A), nuclear gene encoding mitochondrial protein, mRNA /cds=(135,568)	1	TCTCCTCCACCTCAACTCCGTGCTTA ACCAAAGAAGCTGACTCCGGGGG
1780	db mining	Hs.51299	M22538	986883	NADH dehydrogenase (ubiquinone) flavoprotein 2 (24kD) (NDUFV2), mRNA /cds=(18,767)	1	ACCCAAGGGACCTGGATTGGTGTAC AAGCAGGCCCTTAATTATATTGA
1781	Table 3A	Hs.82848	M25280	188555	selectin L (lymphocyte adhesion molecule 1) (SELL), mRNA /cds=(88,1206)	1	AGCTCCTCTCTCTGGCTTCTTACTGA AAGGTTACCCTGTAACATGCAATT
1782	Table 3A	Hs.73798	M25393	190740	macrophage migration inhibitory factor (glycosylation-inhibiting factor) (MIF), mRNA /cds=(97,444)	1	GTCTACATCAACTATTACGACATGAA CGCGGCCAATGTGGGCTGGAAACA
1783	Table 3A	Hs.73798	M25639	188627	macrophage migration inhibitory factor (glycosylation-inhibiting factor) (MIF), mRNA /cds=(97,444)	1	CCACCCCAACCTTCTGGTGGGGAGA AATAACGGTTTAGAGACAGCTCTG
1784	db mining	Hs.624	M26383	184641	interleukin 8 (IL8), mRNA /cds=(74,373)	1	GCCAAGGGCCAAAGAGAATATCCGAA CTTTAATTTCAGGAATTGAATGGGT
1785	Table 3A	Hs.303649	M26683	186289	small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig-Je) (SCYA2), mRNA /cds=(53,352)	1	GAAATTGCTTTTCTCTTGAACACACA GTTCTACCCTGGGATGTTTTGAG
1786	Table 3A	Hs.82112	M26880	340067	Interleukin 1 receptor, type I (IL1R1), mRNA /cds=(82,1791)	1	CCGGTGTGTTAAACTGGTTTAGCACA ATTTATATTTTCCCTCTCTTGCCCT
1787	Table 3A	Hs.82112	M27492	180035	Interleukin 1 receptor, type I (IL1R1), mRNA /cds=(82,1791)	1	ATTAAAGCACCAATTCATGTACAGC ATGCATCAGGATCAATAGACTGT
1788	Table 3A	Hs.1309	M28170	862622	thymocyte antigen CD1a mRNA, complete cds /cds=(533,1516)	1	TAGCCGTACTTTGCTAACTGTGCTCC TCACCTCCTCTTCTTCACTGTCAGT
1789	Table 3A	Hs.78146	M28526	189775	platelet/endothelial cell adhesion molecule (CD31 antigen) (PECAM1), mRNA /cds=(141,2357)	1	AGGCTAAGCTGCCGTTCTTAAATCC ATCCTGCTAAGTTAATGTTGGGTA
1790	Table 3A	Hs.1309	M28825	186279	thymocyte antigen CD1a mRNA, complete cds /cds=(533,1516)	1	AATATATGCATCCCTGGTGAAGGATC TTGCCTGCATGAAACATGTTCTCA
1791	Table 3A	Hs.1722	M28983	186365	interleukin 1, alpha (IL1A), mRNA /cds=(36,851)	1	ACCTGGGCAITTTGTTTCATTCAATT CCACCTGCAATCAAGTCTACAA
1792	Table 3A	Hs.237868	M29084	337452	interleukin 7 receptor (IL7R), mRNA /cds=(22,1401)	1	CTCCCTCACAGCAGAGAGAAGACAAA ATTAGCAAAACCCCACTACACAGT
1793	Table 3A	Hs.237868	M29696	180259	interleukin 7 receptor (IL7R), mRNA /cds=(22,1401)	1	GTTCAAGTGGCACTCAACATGAGTCAA GAGCATCCTGCTTCTACCATGTGG
1794	Table 3A	Hs.89538	M30142	181464	cholesteryl ester transfer protein, plasma (CETP), mRNA /cds=(130,1611)	1	CTTGAGCTAGAAGTCTCCAAGGAGGT CGGGATGGGGCTTGTAGCAGAAGG
1795	Table 3A	Hs.89538	M30185	179039	cholesteryl ester transfer protein, plasma (CETP), mRNA /cds=(130,1611)	1	CTCCCAACTCCTCCCTATCCTAAAGG CCCACTGGCATTAAGTGCTGTAT
1796	db mining	Hs.270833	M30704	339994	amphiregulin (schwannoma-derived growth factor) (AREG), mRNA /cds=(209,967)	1	TCGGTCTCTTTCCAGTGGATCATAA GACAATGGACCCTTTTGTATTGA
1797	Table 3A	Hs.29352	M31165	184485	tumor necrosis factor, alpha-induced protein 6 (TNFAIP6), mRNA /cds=(68,901)	1	AACACACAGTGTTTATGTTGGAATCT TTTGGAACCTCTTGTACTCACTG

Table 8

1798	Table 3A	Hs.149923	M31210	181948	X-box binding protein 1 (XBP1), mRNA /cds=(48,833)	1	GGGGCTCTTCCCTCATGTACTTC AAGTAAGATCAAGAATCTTTGTG
1799	Table 3A	Hs.1012	M31452	190501	complement component 4-binding protein, alpha (C4BPA), mRNA /cds=(138,1931)	1	TCATCCTCTGTGGCTCATGTTTT GCTTTTCAACACACAAAGCACAAA
1800	Table 3A	Hs.101047	M31523	339477	transcription factor (E2A) mRNA, complete cds /cds=(30,1994)	1	TGGATGATTGGGACTTTAAACGACC CTCTTTCAGGTGGATTACAGACC
1801	db mining	Hs.149923	M31627	182473	X-box binding protein 1 (XBP1), mRNA /cds=(48,833)	1	TGTAGCTTCTGAAAGGTGCTTCTCC ATTTATTTAAAACTACCCATGCA
1802	Table 3A	Hs.78864	M31932	188194	Fc fragment of IgG, low affinity IIa, receptor for (CD32) (FCGR2A), mRNA /cds=(11,958)	1	TGTAGCAACATGAGAAACGCTTATGT TACAGTTACATGAGAGCAATCAT
1803	Table 3A	Hs.73931	M32011	189267	major histocompatibility complex, class II, DQ beta 1 (HLA-DQB1), mRNA /cds=(57,842)	1	CTGATGGCTGTGACCCTGCTTCTGCG ACTGACCCAGAGCCTCTGCGCTGTG
1804	Table 3A	Hs.256278	M32315	189185	tumor necrosis factor receptor superfamily, member 1B (TNFRSF1B), mRNA /cds=(89,1474)	1	TGTGTGTTGATCCCAAGACAATGAAA GTTTGCACTGTATGCTGGACGGCA
1805	Table 3A	Hs.73931	M32577	183628	major histocompatibility complex, class II, DQ beta 1 (HLA-DQB1), mRNA /cds=(57,842)	1	CTCTCCTCAGACTGCTCAAGAGAAGC ACATGAAAACCACTTACCTGACTTT
1806	Table 3A	Hs.75765	M33336	1526989	GRO2 oncogene (GRO2), mRNA /cds=(74,397)	1	GCCAGTAAGATCAATGTGACGGCAG GGAAATGTATGTGTGCTATTTTGT
1807	Table 3A	Hs.198253	M33906	184194	major histocompatibility complex, class II, DQ alpha 1 (HLA-DQA1), mRNA /cds=(43,810)	1	GCAACAATGAAGTTAATGGATACCCT CTGCCCTTGGCTCAGAAATGTTAT
1808	Table 3A	Hs.87773	M34181	189982	protein kinase, cAMP-dependent, catalytic, beta (PRKACB), mRNA /cds=(47,1102)	1	TGCTTTTCGGTTATCAAGTGTTTCTG CATGGTAATGTCATGTAATGCTG
1809	Table 3A	Hs.26045	M34688	190738	protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA /cds=(695,3103)	1	TATCATGGGGAGTAATAGGACCAGAG CGGTATCTCTGGCACCACACTAGC
1810	Table 3A	Hs.119663	M34671	180152	CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344) (CD59), mRNA /cds=(29,415)	1	TGATCTTGGCTGTATTTAATGGCATA GGCTGACTTTTGACAGATGGAGGAA
1811	Table 3A	Hs.250811	M35416	190851	v-rat simian leukemia viral oncogene homolog B (ras related; GTP binding protein) (RALB), mRNA /cds=(170,780)	1	AGTACTGAGAAAAATCCCTTCAGCTC TAAGAACACTGAAAAATCCACCGA
1812	Table 3A	Hs.87149	M35999	183532	integrin, beta 3 (platelet glycoprotein IIb, antigen CD61) (ITGB3), mRNA /cds=(16,2382)	1	ACTTTGCACACATTGTCATCCACATAT TAGGGAAGGAATAAGTAGCTGCA
1813	Table 3A	Hs.75765	M36820	183628	GRO2 oncogene (GRO2), mRNA /cds=(74,397)	1	ATGCAAGTGTTCCTCTGTGTTAGAG CAGAGAGGTTTCGATATTTATTGA
1814	Table 3A	Hs.89690	M36821	183632	GRO3 oncogene (GRO3), mRNA /cds=(77,397)	1	TGCTGAAGTTTCCCTTAGACATTTTAT GTCTTGCTTGATGGGCATAATGC
1815	Table 3A	Hs.82212	M37033	184059	CD53 antigen (CD53), mRNA /cds=(93,752)	1	CACCTGGACCATTTGTCAACACCTCTG TTTCTCTTGACTAAGTGCCCTGG
1816	Table 3A	Hs.119192	M37583	179968	H2A histone family, member Z (H2AFZ), mRNA /cds=(106,492)	1	AAGTGTACTGTGGCTTCAAAGAAAGC TATTGATTCTGAAGTAGTGGGTTT
1817	Table 3A	Hs.173894	NM_000757	4503074	macrophage-specific colony-stimulating factor (CSF-1) mRNA, complete cds /cds=(105,1769)	1	GCTGCTTATATTTAATAATAAAAGA AGTGCAACAGCTGCCGTTGACGT
1818	Table 3A	Hs.119192	M37583	189988	H2A histone family, member Z (H2AFZ), mRNA /cds=(106,492)	1	AACAAACATTGGTTTGTTCAGACCT TATTTCCACTCTGGTGGATAAGT
1819	Table 3A	Hs.315366	M55284	189988	protein kinase C, eta (PRKCH), mRNA /cds=(166,2214)	1	GAGAGAGGGCAGCAGAACCCAAAGG AATAGAGATTCTCCAGGAATTTCT
1820	Table 3A	Hs.315366	M55284	189988	protein kinase C, eta (PRKCH), mRNA /cds=(166,2214)	1	TCCCAGCATCAGCCTTAGAACAGA ACCTTACCTCAAGGAGCAAGTGA
1821	Table 3A	Hs.171862	M55543	829176	guanylate binding protein 2, interferon-inducible (GBP2), mRNA /cds=(156,1931)	1	CTGTCCAGCTCCCTCTCCCAAGAAA CAACATGAATGAGCAACTTCAGAG
1822	Table 3A	Hs.2055	M58028	340071	ubiquitin-activating enzyme E1 (A1S9T and BN75 temperature sensitivity complementing) (UBE1), mRNA /cds=(32,3208)	1	CTGTAACGACGAGAGCGGCGAGGAT GTCGAGGTTCCCTATGTCCGATACA
1823	Table 3A	NA	M55674	189870	one single clone, artifact ?	1	ACCTAGTCATCAGGACACTGAGCCAG GGCTGCAACCACTCCATGAGTTTG
1824	Table 3A	Hs.72918	M57506	184505	small inducible cytokine A1 (I-309, homologous to mouse Tca-3) (SCYA1), mRNA /cds=(72,362)	1	CCCCAACCTCTGGGCTCTTGGAATTT CAGAGTGAACACTTGATGGCATTG
1825	Table 3A	Hs.193717	M57627	186270	interleukin 10 (IL10), mRNA /cds=(30,568)	1	TCAATTCCTCTGGGAATGTTACATTG TTTGTCTGTCTCATAGCAGATTT
1826	Table 3A	Hs.1051	M57888	183154	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) (GZMB), mRNA /cds=(33,776)	1	ACCAGTTCTTTCCCTTCTAGATTCAC CCTGTTCTGAAGCCAGCCTCTCTC
1827	Table 3A	Hs.2055	M58028	189177	ubiquitin-activating enzyme E1 (A1S9T and BN75 temperature sensitivity complementing) (UBE1), mRNA /cds=(32,3208)	1	CTACCTGAACCCCTCTTGCCACTGCC TTCTACCTGTTTGAACCTGAAT

Table 8

1828	Table 3A	Hs.83428	M58597	182070	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (p105) (NFKB1), mRNA /cds=(397,3303)	1	AAGCTGAGACCTTTTCAAGTTGGCTT CCTTCTTGTTTCATAAATGAATT
1829	Table 3A	Hs.83428	M58603	186498	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (p105) (NFKB1), mRNA /cds=(397,3303)	1	AGCTGCTGCTGGATCACAGCTGCTTT CTGTTGTCAATTGCTGTTGTCCCTC
1830	Table 3A	Hs.265829	M59465	177865	integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), transcript variant a, mRNA /cds=(73,3228)	1	GGCTGTGTCTTAAGGCCCATTTGAGA AGCTGAGGCTAGTTCCAAAAACCT
1831	Table 3A	Hs.2175	M59820	183048	colony stimulating factor 3 receptor (granulocyte) (CSF3R), mRNA /cds=(169,2679)	1	ATCCAGCCCCACCAATGGCCTTTTG TGCTTGTTCCTATAAATTCAGTA
1832	Table 3A	Hs.265829	M60278	183868	integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), transcript variant a, mRNA /cds=(73,3228)	1	CCTTCTTTGTATATAGGCTTCTCACC GCGACCAATAAACAGCTCCAGTT
1833	Table 3A	Hs.799	M60724	189507	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor) (DTR), mRNA /cds=(261,887)	1	AAAACGATGAAGGTATGCTGTCTATGG TCCTTCTGGAAGTTTCTGGTGCC
1834	Table 3A	Hs.86858	M60626	182662	ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1), mRNA /cds=(27,1604)	1	AATGCGAAATTATTGGTTGGTGTGAA GAAAGCCAGACAACCTCTGTTTCT
1835	Table 3A	Hs.86858	M61906	189424	ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1), mRNA /cds=(27,1604)	1	CTGTGGCTCGTTTGAGGGATTGGGG TGGACCTGGGGTTTATTTTCAGTAA
1836	Table 3A	Hs.6241	M61199	181122	P13-kinase associated p85 mRNA sequence /cds=UNKNOWN	1	GCTTCCCCACCCAGTTTGTGTTGCT TGAAATATTGTTGTCGCCGATT
1837	Table 3A	Hs.6241	M61906	190734	P13-kinase associated p85 mRNA sequence /cds=UNKNOWN	1	TGGACTGTTTTGTTGGGCAGTGCCTG ATAAGCTTCAAAGCTGCTTTATTC
1838	Table 3A	Hs.50651	M63180	339679	Janus kinase 1 (a protein tyrosine kinase) (JAK1), mRNA /cds=(75,3503)	1	CCTGCCGTGCCCACTAACTGTCCCA GATGAGGTTTATCAGCTTATGAGAA
1839	Table 3A	Hs.84318	M63488	337488	replication protein A1 (70kD) (RPA1), mRNA /cds=(69,1919)	1	CGAGCTGAGAAGCGGTATGAGCAC CTGGGGATTTAGTAAGTGTGTCTT
1840	Table 3A	Hs.50651	M64174	190446	Janus kinase 1 (a protein tyrosine kinase) (JAK1), mRNA /cds=(75,3503)	1	ACCATCCAATCGGACAAAGCTTTCAGA ACCTTATTGAAGGATTGAAGCAC
1841	Table 3A	Hs.82159	M64992	178996	proteasome (prosome, macropain) subunit, alpha type, 1 (PSMA1), mRNA /cds=(105,896)	1	TGCTGATGAACCTGCAGAAAAGGCTG ATGAACCAATGGAACATTAAGTGA
1842	Table 3A	Hs.11482	M69043	187290	splicing factor, arginine/serine-rich 11 (SFRS11), mRNA /cds=(83,1537)	1	TCTTATGCACCGGTGATTTTCATGTT ATATATGCAAAGTAGGCAACTGTT
1843	Table 3A	Hs.155160	M72709	179073	Homo sapiens, Similar to splicing factor, arginine/serine-rich 2 (SC-35), clone MGC:2622 IMAGE:3501687, mRNA, complete cds /cds=(30,878)	1	AACATAGGAGTGGATTCTGCCCCAA CCAAACCGCATTGCTGTGGATTTT
1844	Table 3A	Hs.1117	M73047	339879	tripeptidyl peptidase II (TPP2), mRNA /cds=(23,3772)	1	AATAAATTGCAAAACCAAGATCACA GTACACCATATGCACCTGGTACC
1845	Table 3A	Hs.178112	M73547	190181	polyposis locus (DP1 gene) mRNA, complete cds /cds=(82,639)	1	AAATGACCTCATGTTGTGTTTAAAC AGCAACTGCACCCACTAGCACAGC
1846	Table 3A	Hs.11482	M74002	184045	splicing factor, arginine/serine-rich 11 (SFRS11), mRNA /cds=(83,1537)	1	TGTGCAGTAGAAACAAAGTAGGCTA CAGTCTGTGCCATGTTGATGTACA
1847	Table 3A	Hs.811	M74525	189511	ubiquitin-conjugating enzyme E2B (RAD6 homolog) (UBE2B), mRNA /cds=(421,879)	1	CTGTTTATCTGGGAAATGTTTAAATG CCAGGGCCTGCTGAGTTGCTTCT
1848	Table 3A	Hs.172766	M80359	182353	MAP/microtubule affinity-regulating kinase 3 (MARK3), mRNA /cds=(171,2312)	1	CCTTAAGACCAGTTTCATAGTTAATAC AGGTTTACAGTTTCATGCCCTGTGGT
1849	Table 3A	Hs.153179	M81601	339442	fatty acid binding protein 5 (psoriasis-associated) (FABP5), mRNA /cds=(48,455)	1	TCATCACTTTGGACAGGAGTTAATTA AGAGAATGACCAAGCTCAGTTCAA
1850	Table 3A	Hs.119537	M88108	189499	GAP-associated tyrosine phosphoprotein p62 (Sam68) (SAM68), mRNA /cds=(106,1437)	1	AGTCTGCCTAAATAGGTAGCTTAAAC TTATGTCAAAATGTCTGCAGCAGT
1851	Table 3A	Hs.89575	M89957	179311	CD79B antigen (immunoglobulin-associated beta) (CD79B), transcript variant 1, mRNA /cds=(94,783)	1	CTGGCCTCCAGTGCCCTCCCCCGTG GAATAACCGGTGTGCTGAGAAAC
1852	Table 3A	Hs.181967	M90356	179575	BTF3 protein homologue gene, complete cds	1	AGCTAATTAAGCTGCAGAACGTGGGA AATAAAGTTTCAAACAAAGGTTAA
1853	Table 3A	Hs.82127	M90391	4153827	putative IL-16 protein precursor, mRNA, complete cds /cds=(303,2198)	1	GGACAGGTGTGCCGACAGAAGGAAC CAGCGTGATATAGAGGGTATCAAAT
1854	Table 3A	Hs.73722	M92444	183779	apurinic/apyrimidinic endonuclease (HAP1) gene, complete cds	1	CCCTTCGTGGGGCTACACATTCTCTT CCTCATATTTTCATGCACACAAGT
1855	Table 3A	Hs.145279	M93651	338038	SET translocation (myeloid leukemia-associated) (SET), mRNA /cds=(3,836)	1	TTCTGCACAGGTCTCTGTTTGTATAA TACATCACTGTATACCGATCAGGA



Table 8

1856	Table 3A	Hs.7647	M94046	187393	MYC-associated zinc finger protein (purine-binding transcription factor) (MAZ), mRNA /cds=(91,1584)	1	CACCCCTCCACCCCTTCCTTTTGC GCG GACCCCATTAACAATAATTTTAA
1857	Table 3A	Hs.153179	M95585	184223	fatty acid binding protein 5 (psoriasis-associated) (FABP5), mRNA /cds=(48,455)	1	CATGCAGCTATTTCAAAGTGTTGG ATTAATTAGGATCATCCCTTTGGT
1858	Table 3A	Hs.250692	M95585	337810	hepatic leukemia factor (HLF) mRNA, complete cds /cds=(322,1209)	1	TGGAGAATTGTGGAAGGATTGTAACA TGGACCATCCAAATTTATGGCCGT
1859	Table 3A	Hs.74592	M96982	338262	special AT-rich sequence binding protein 1 (binds to nuclear matrix/scaffold-associating DNA's) (SATB1), mRNA /cds=(214,2505)	1	TTCACGGGATGCACCAAGGTGTAC CCCGTAAGCATGAAACCAAGTGT
1860	Table 3A	Hs.296381	M96995	181975	growth factor receptor-bound protein 2 (GRB2), mRNA /cds=(78,731)	1	TCTGTCCATCAGTGCATGACGTTTAA GGCCACGTATAGCTTAGCTGACG
1861	Table 3A	Hs.74592	M97856	184432	special AT-rich sequence binding protein 1 (binds to nuclear matrix/scaffold-associating DNA's) (SATB1), mRNA /cds=(214,2505)	1	TCCTATAATTATTTCTGTAGCACTCCA CACTGATCTTTGGAACCTTGCCC
1862	Table 3A	Hs.243886	M97935	2281070	nuclear autoantigenic sperm protein (histone-binding) (NASP), mRNA /cds=(85,2448)	1	GGGACACTGGAGGCTGGAGCTACAG TTGAAAGCACTGCATGTTAAGAGGG
1863	Table 3A	Hs.21488	M98399	180112	signal transducer and activator of transcription 1, 91kD (STAT1), mRNA /cds=(196,2448)	1	TGCTACCACTATATATTATCATGCAA ATGCTGTATTCTTCTTGGTGGA
1864	Table 3A	Hs.75613	N27575	1142056	CD36 antigen (collagen type I receptor, thrombospondin receptor) (CD36), mRNA /cds=(132,1550)	1	GCAACTTACGCTTGGCATCTTCAGAA TGCTTTCTAGCATTAAAGAGATGT
1865	Table 3A	Hs.198427	N25486	1139799	hexokinase 2 (HK2), mRNA /cds=(1490,4243)	1	TTTACAAGAATTGTCCATGTGCTTCC CTAGGCTGAGCTGGCATTGGTCTG
1866	Table 3A	Hs.198427	N99577	1271009	hexokinase 2 (HK2), mRNA /cds=(1490,4243)	1	AAAACCTCCACCCTACTTTTCCAAG AGTGCCAGTTGGATTCTGAATCTG
1867	Table 3A	Hs.73965	N28843	1147079	splicing factor, arginine/serine-rich 2 (SFRS2), mRNA /cds=(155,820)	1	TAGACCAATTCTCTGATCTCGAGTTG TTTTTTGTTGGATACAGCCCTTTT
1868	Table 3A	Hs.5122	N31700	1152099	602293015F1 cDNA, 5' end /clone=IMAGE:4387778 /clone_end=5'	1	AACATTCTACATAGCACAGGAGCTTA AGAGTGGCATTATCTTCTCGCCTT
1869	Table 3A	Hs.66151	N3426	1155403	mRNA; cDNA DKFZp434A115 (from clone DKFZp434A115) /cds=UNKNOWN	1	AGATACGCAGACATTGTGGCATCTGG GTAGAAGAATACTGTATTGTGTGT
1870	Table 3A	Hs.73965	Z22642	296907	splicing factor, arginine/serine-rich 2 (SFRS2), mRNA /cds=(155,820)	1	TTTGACCAGAAAGCCCTTAGTAAGTAC GTGCTGAAACTGAAACCCAGTGTG
1871	Table 3A	Hs.166563	L14922	307337	DNA-binding protein (PO-GA) mRNA, complete cds /cds=(393,3836)	1	ACACCTGGCTTGGAGTCAGATTTAGT TAACAATAATGAGCCCTGGAGCAGT
1872	literature	Hs.75772	M10901	183032	nuclear receptor subfamily 3, group C, member 1 (NR3C1), mRNA /cds=(132,2465)	1	TCTAATAGCGGTTACTTTTACATAC AGCCCTCCCCAGCAGTTGAATGA
1873	literature	Hs.74561	NM_000014	6226959	alpha-2-macroglobulin (A2M), mRNA /cds=(43,4467)	1	CTGAAAAGTGCTTTGCTGGAGTCCTG TTCTCTGAGCTCCACAGAAGACAC
1874	db mining	Hs.172670	NM_000020	4557242	activin A receptor type II-like 1 (ACVRL1), mRNA /cds=(282,1793)	1	AAGCCTAAAGTGATTCAATAGCCAG GAGCACCTGATCTCTTCTGCTGCTG
1875	Table 3A	Hs.1217	NM_000022	4557248	adenosine deaminase (ADA), mRNA /cds=(95,1186)	1	TGGGCATGGTTGAATCTGAAACCCCTC CTTCTGTGGCAACTTGTACTGAAA
1876	Table 3A	Hs.99931	NM_000023	4506910	sarcoglycan, alpha (50kD dystrophin-associated glycoprotein) (SGCA), mRNA /cds=(11,1174)	1	GGGGTGGGGTGGGGTGAGAGTGTGT GGAGTAAGGACATTGAGAATAAATA
1877	literature	Hs.207776	NM_000027	4557272	aspartylglucosaminidase (AGA), mRNA /cds=(170,1210)	1	AGAAGTTGTGCGCGTGCTTTCTCAGC AGCATTTTTCTTCAAATCATCT
1878	Table 3A	Hs.159546	NM_000033	7262392	ATP-binding cassette, sub-family D (ALD), member 1 (ABCD1), mRNA /cds=(386,2623)	1	CTTGCCAGCCAGAGTGCGGACACC ATGTTCCAGCTCAGTGCCAAAGAG
1879	Table 3A	Hs.75081	NM_000038	4557318	adenomatosis polyposis coli (APC), mRNA /cds=(38,8569)	1	ATTTGGGGAGAGAAAACCTTTTAAAG CATGGTGGGGCACTCAGATAGGAG
1880	literature	Hs.36820	NM_000057	4557364	Bloom syndrome (BLM), mRNA /cds=(74,4327)	1	ACCCTCTTCTTGTGTCAGCATCT GACCATCTGTGACTATAAGCTGT
1881	literature	Hs.34012	NM_000059	4502450	breast cancer 2, early onset (BRCA2), mRNA /cds=(228,10484)	1	TGGTCATCCAACTCAAACCTTGAGAA AATATCTTGCTTTCAAATTGACAC
1882	Table 3A	Hs.159494	NM_000061	4557376	Bruton agammaglobulinemia tyrosine kinase (BTK), mRNA /cds=(163,2142)	1	ACCGAATTTGGCAAGAATGAAATGGT GTCAATAAGATGGGAGGGGGAGGT
1883	Table 3A	Hs.1282	NM_000065	4559405	complement component 6 (C6), mRNA /cds=(155,2959)	1	AGCCTGTGACATTAAGCATTCTCACA ATTAGAAATAAGAATAAAACCCAT
1884	Table 3A	Hs.2259	NM_000073	4557428	CD3G antigen, gamma polypeptide (TTT3 complex) (CD3G), mRNA /cds=(37,585)	1	AAAAATAAAACAAATCTGTGTTTCA GAAGCGCCACCTATTGGGGAAAA
1885	Table 3A	Hs.36508	NM_000081	4502838	Chediak-Higashi syndrome 1 (CHS1), mRNA /cds=(189,11594)	1	TTATCACAAGCTCTGTTACCTTTATAT ACGCTGCCTCTTCAATTTGAAA
1886	literature	Hs.32987	NM_000082	4557466	Cockayne syndrome 1 (classical) (CKN1), mRNA /cds=(36,1226)	1	GCAGAAAATATCTTGGCAGGGAACT GGCTTAAACATGAAATCTGTGAAT
1887	Table 3A	Hs.154654	NM_000104	13325059	cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1), mRNA /cds=(372,2003)	1	TGTGTGCATAATAGCTACAGTGCATA GTTGTAGACAAAGTACATTCTGGG



Table 8

1888	literature	Hs.77602	NM_000107	4557514	damage-specific DNA binding protein 2 (48kD) (DDB2), mRNA /cds=(175,1458)	1	TCTCAGTGGGTGGTAGCAGAGGGAT CAAGCAGTATTATTGATTTGTGCTCT
1889	Table 3A	Hs.74635	NM_000108	5016092	dihydropyrimidine dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex) (DLD), mRNA /cds=(82,1611)	1	GTCTATTACGGAACCTCAAAACGTTG GGCATTCAAATGTATTACAGTGGG
1890	Table 3A	Hs.1602	NM_000110	4557874	dihydropyrimidine dehydrogenase (DPYD), mRNA /cds=(101,3178)	1	TGCACCTTTAGAAATGCATATTTGCCA CAAAACCTGTATTACTGAATAAT
1891	Table 3A	Hs.2985	NM_000117	4557552	emerin (Emery-Dreifuss muscular dystrophy) (EMD), mRNA /cds=(58,822)	1	GGGAGGGGATTAAACCAAGGCCACC CTGACTTTGTTTTGTGGACACACA
1892	Table 3A	Hs.76753	NM_000118	4557554	endoglin (Osler-Rendu-Weber syndrome 1) (ENG), mRNA /cds=(350,2227)	1	GCCTGCCCTGTGTATTACACACCAA TAAATCAGACCATGAAACCTGAAA
1893	Table 3A	Hs.77929	NM_000122	4557562	excision repair cross-complementing rodent repair deficiency, complementation group 3 (xeroderma pigmentosum group B complementing) (ERCC3), mRNA /cds=(95,2443)	1	AGGTGTATTATGTTACCGTTCTGAAT AAACAGAATGGACATTGAACCA
1894	literature	Hs.48576	NM_000123	4503600	excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) (ERCC5), mRNA /cds=(197,3757)	1	TGTAATGAATTTGTCGCAAGACGTA ATAAAATTAAGTGGTGGCAGGGTC
1895	literature	Hs.98924	NM_000124	4557564	excision repair cross-complementing rodent repair deficiency, complementation group 6 (ERCC6), mRNA /cds=(79,4580)	1	TGTCATGAAGTTGGCTGCACTTGA TGTTTGTTCGATGATGTCTACCT
1896	db mining	Hs.1657	NM_000125	4503602	estrogen receptor 1 (ESR1), mRNA /cds=(360,2147)	1	TCGAGCAGCTGTAAACAATTTTCTCA ACCTATTTGATGTTCAAAATAAGA
1897	Table 3A	Hs.80424	NM_000129	9961355	coagulation factor XIII, A1 polypeptide (F13A1), mRNA /cds=(101,2299)	1	AACTTTACTAAGTAATCTCAGAGCATT TGCCAAGTCTCCCAATATCCAAT
1898	literature	Hs.284153	NM_000135	4503654	Fanconi anemia, complementation group A (FANCA), mRNA /cds=(31,4398)	1	TAAGATCTTTAACTGCTTTATACACT TGACGTGGCTTCATCAGCTGTG
1899	literature	Hs.37953	NM_000138	4557588	Fanconi anemia, complementation group C (FANCC), mRNA /cds=(255,1928)	1	AAAACCACTACCCCTCAGAGAGAGCCA AAAATACAGAAGAGGGGAGAGCG
1900	Table 3A	Hs.1437	NM_000152	11496988	glucosidase, alpha; acid (Pompe disease, glycogen storage disease type II) (GAA), mRNA /cds=(441,3299)	1	CGAGCAAGCCTGGGAACCTCAGGAAA ATTCACAGGACTTGGGAGATTCTAA
1901	Table 3A	Hs.273	NM_000153	4557612	galactosylceramidase (Krabbe disease) (GALC), mRNA /cds=(263,2272)	1	GGCTTAGCTACAGTGAAGTTTTGCAT TGCTTTTGAAGACAAGAAAAGTGC
1902	Table 3A	Hs.86724	NM_000161	4503948	GTP cyclohydrolase 1 (dopa-responsive dystonia) (GCH1), mRNA /cds=(148,900)	1	ACTTCAAAATTACCTTTTCATATCCAT GATCTTGAGTCCATTGGGGGAT
1903	Table 3A	Hs.1466	NM_000167	4504006	glycerol kinase (GK), mRNA /cds=(66,1640)	1	CAAAACATTTTGGGCCAGGATTTGAG TCTCTGCATGACATATCTTGATT
1904	Table 3A	Hs.1144	NM_000174	4504076	glycoprotein IX (platelet) (GP9), mRNA /cds=(222,755)	1	CAGACTCCACCAAGCCTGGTCAGCC CAAACCACCAAGCCAGATAAA
1905	Table 3A	Hs.75772	NM_000176	4504132	nuclear receptor subfamily 3, group C, member 1 (NR3C1), mRNA /cds=(132,2465)	1	AGTGAGAAATCTCATAGGTTGCCAAT AATACACTAATTCCTTTCTATCCT
1906	literature	Hs.3248	NM_000179	4504190	mutS (E. coli) homolog 6 (MSH6), mRNA /cds=(87,4189)	1	AGACTGACTACATTGGAAGCTTTGAG TTGACTTCTGACCAAGGTGGTAA
1907	Table 3A	Hs.183888	NM_000181	4504222	glucuronidase, beta (GUSB), mRNA /cds=(28,1981)	1	CTGGGTTTTGTGGTCATCTATTCTAG CAGGGAACACTAAAGGTGGAATA
1908	literature	Hs.75860	NM_000182	4504324	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit (HADHA), mRNA /cds=(27,2316)	1	GTGGTGAGGGCAGTTCTGCACCCAG CCAAACACATAACAATAAAACCAA
1909	Table 3A	Hs.146812	NM_000183	4504326	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB), mRNA /cds=(46,1470)	1	TCTGTGTCTAAAGATGTGTTCTCTAT AAAATACAAACCAAGTGCCTAA
1910	Table 3A	Hs.198427	NM_000189	4504392	hexokinase 2 (HK2), mRNA /cds=(1490,4243)	1	CTAGTCATAGAAATACCTCATTGCGC TGTGGGAAGAGAAGGGAAGCCTCT
1911	Table 3A	Hs.83951	NM_000195	4504484	Hermansky-Pudlak syndrome (HPS), mRNA /cds=(206,2308)	1	AGCAGCGGCTGGATGTGATATGTCTA GTTTAACCAAGTCCCCTTGATCTTT

Table 8

1912	Table 3A	Hs.168383	NM_000201	4557877	intercellular adhesion molecule 1 (CD54), rhinovirus receptor (ICAM1), mRNA /cds=(57,1655)	1	TATTGGAGGACTCCCTCCAGCTTTG GAAGGTCATCCGCGTGTGTGTGT
1913	Table 3A	Hs.172458	NM_000202	5360215	iduronate 2-sulfatase (Hunter syndrome) (IDS), transcript variant 1, mRNA /cds=(331,1983)	1	ATACAAAGCAAACAACTCAAGTTAT GTCATACCTTTGGATACGAAGACC
1914	Table 3A	Hs.238893	NM_000206	4557881	od15g01.s1 cDNA /clone=IMAGE:1368048	1	ATCTACCTCCGATTGTTCTCTGAACC GATGAGAAATAAGTTTCTGTGTA
1915	Table 3A	Hs.83968	NM_000211	4557885	integrin, beta 2 (antigen CD18 (p95), lymphocyte function-associated antigen 1; macrophage antigen 1 (mac-1) beta subunit) (ITGB2), mRNA /cds=(72,2381)	1	CATGGAGACTTGAGGAGGGCTTGAG GTTGGTGAGGTTAGGTGCGTGTTC
1916	literature	Hs.99877	NM_000215	4557680	Janus kinase 3 (a protein tyrosine kinase, leukocyte) (JAK3), mRNA /cds=(95,3469)	1	GCCCAAAGCAAGGAACCAAATTT AAGACTCTCGCATCTTCCCAACCC
1917	literature	Hs.1770	NM_000234	4557718	ligase I, DNA, ATP-dependent (LIG1), mRNA /cds=(120,2879)	1	CCGGAGTCTGGGATTTCATCCGTCAT TTCTTTCAATAAATAATTATTGGA
1918	db mining	Hs.3076	NM_000246	4557748	MHC class II transactivator (MHC2TA), mRNA /cds=(138,3530)	1	GCAATGGCAGCCTTGGCAAACGCTA AATGAAATCGTGACAACACTTGTG
1919	literature	Hs.57301	NM_000249	4557756	mutL (E. coli) homolog 1 (colon cancer, nonpolyposis type 2) (MLH1), mRNA /cds=(21,2291)	1	AGTGTGGTAGCACTTAAGACTTATA CTTGCCCTTCGATAGTATTCCTTT
1920	literature	Hs.78934	NM_000251	4557760	mutS (E. coli) homolog 2 (colon cancer, nonpolyposis type 1) (MSH2), mRNA /cds=(68,2872)	1	AAGTGGAGACTGTTTGCAATTGACAT AGGCAATAAAGTGATGTGCTGA
1921	Table 3A	Hs.75514	NM_000270	4557800	nucleoside phosphorylase (NP), mRNA /cds=(109,978)	1	GGGCTCAGTCTGCCTTATCTAAATC ACGAGAGACCAACCAAGGACTAAT
1922	Table 3A	Hs.76918	NM_000271	4557802	Niemann-Pick disease, type C1 (NPC1), mRNA /cds=(123,3959)	1	GGCATGAAATGAGGACAAAGAAAG CATCTCGTAGGTGTGTCTACTGGGT
1923	Table 3A	Hs.1023	NM_000284	4505684	pyruvate dehydrogenase (lipoamide) alpha 1 (PDHA1), mRNA /cds=(105,1277)	1	TCTTGGAACTTCGATTAAAGTGTGA GATTGAGCAGGTAGTAATTGCATG
1924	Table 3A	Hs.78771	NM_000291	4505762	phosphoglycerate kinase 1 (PGK1), mRNA /cds=(79,1332)	1	ACTACTCAGCATGGAACAAGATGAA ATTCCATTGTAGGTAGTGAGACA
1925	Table 3A	Hs.186177	NM_000294	4505784	phosphorylase kinase, gamma 2 (testis) (PHKG2), mRNA /cds=(93,1313)	1	CACATAATGATCCTGCTACCTCTTGA AGACCAGCCCGGTACTCTCTCCC
1926	Table 3A	Hs.169857	NM_000305	4505952	paraoxonase 2 (PON2), mRNA /cds=(32,1096)	1	GTGACCTCACTTCTGGCACTGTGACT ACTATGGCTGTTTGAAGTACTGA
1927	Table 3A	Hs.3873	NM_000310	4506030	palmitoyl-protein thioesterase 1 (ceroid-lipofuscinosis, neuronal 1, infantile) (PPT1), mRNA /cds=(13,933)	1	AAGCCTTATTCTTCAACTAAAGATGA GGATTAAGAGCAAGAAGTTGGGG
1928	Table 3A	Hs.74621	NM_000311	4506112	prion protein (p27-30) (Creutzfeldt-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia) (PRNP), mRNA /cds=(49,810)	1	GCACTGAATCGTTTTCATGTAAGAATC CAAAGTGACACCATTAAACAGGTC
1929	Table 3A	Hs.288986	NM_000344	13259515	survival of motor neuron 1, telomeric (SMN1), transcript variant d, mRNA /cds=(183,1047)	1	GGTGCTCACATTCCTTAAATTAAGGA GAAATGCTGGCATAGAGCAGCACT
1930	Table 3A	Hs.2316	NM_000346	4557852	SRY (sex determining region Y)-box 9 (campomelic dysplasia, autosomal sex-reversal) (SOX9)	1	CTTTTGTCTCTCCGTGAACTTACCT TTCCCTTTTCTTCTCTTTTTT
1931	Table 3A	Hs.118787	NM_000358	4507466	transforming growth factor, beta-induced, 68kD (TGFB1), mRNA /cds=(47,2098)	1	TGGTATGTAGAGCTTAGATTTCCCTA TTGTGACAGAGCCATGGTGTGTTT
1932	literature	Hs.2030	NM_000361	4507482	Thrombomodulin	1	TGGAGATAATCTAGAACACAGGCAAA ATCCTTGCTTATGACATCACTTGT
1933	Table 3A	Hs.83848	NM_000365	4507644	triosephosphate isomerase 1 (TPI1), mRNA /cds=(34,783)	1	GTGCCTCTGTGCTGTGTATGTGAACC ACCCATGTGAGGGAATAAACCTAG
1934	db mining	Hs.123078	NM_000369	4507700	thyroid stimulating hormone receptor (TSHR), mRNA /cds=(100,2394)	1	TGCAAAACGGTTTTGAAGTTAACT ACACTACTCAAAATGGTAGGGGAA
1935	literature	Hs.75593	NM_000375	4557872	uroporphyrinogen III synthase (congenital erythropoietic porphyria) (UROS), mRNA /cds=(196,993)	1	CCTGTGCCCAGCAGGAAGGAAGTCA AATAAACCACTGACTACCTGTGC
1936	db mining	Hs.2157	NM_000377	4507808	Wiskott-Aldrich syndrome (eczema-thrombocytopenia) (WAS), mRNA /cds=(34,1542)	1	CCCAACAATCCCAAGGCCCTTTTAT ACAAAAATCTCAGTTCTCTTAC
1937	Table 3A	Hs.250	NM_000379	9257259	xanthine dehydrogenase (XDH), mRNA /cds=(81,4082)	1	TGTCTGTTTTAATCATGTATCTGGAAT AGGGTCGGGAAGGGTTTGTGCTA
1938	literature	Hs.182803	NM_000380	4507936	xeroderma pigmentosum, complementation group A (XPA), mRNA /cds=(26,847)	1	CACGATGGTGGAACAGTGGGGAAAC TACTGCTGGAAAAAGCCATAATAGC
1939	Table 3A	Hs.179665	NM_000389	11386202	cyclin-dependent kinase inhibitor 1A (p21, Cip1) (CDKN1A), mRNA /cds=(75,569)	1	CCCTGGAGGCACTGAAGTGCTTAGT GTACTTGGAGTATTGGGGTCTGACC
1940	Table 3A	Hs.83942	NM_000396	4503150	cathepsin K (pseudosclerosis) (CTSK), mRNA /cds=(129,1118)	1	ACAAGTTTACATGATAAAAGAAATGT GATTGTCTTCCCTTCTTTCAC

Table 8

1941	Table 3A	Hs.88974	NM_000397	6996020	cytochrome b-245, beta polypeptide (chronic granulomatous disease) (CYBB), mRNA /cds=(14,1726)	1	TTGTATGTGAATAATTCTAGCGGGG ACCTGGGAGATAATTCTACGGGGA
1942	Table 3A	Hs.1395	NM_000399	9845523	early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA /cds=(338,1768)	1	ATCTATTCTAACGCAAAACCACTAACT GAAGTTCAGATATAATGGATGGT
1943	Table 3A	Hs.180866	NM_000416	4557879	interferon gamma receptor 1 (IFNGR1), mRNA /cds=(43,1512)	1	GTAACGGAACATATCCAGTACTCCTG GTTCCTAGGTGAGCAGGTGATGCC
1944	Table 3A	Hs.1724	NM_000417	4557666	interleukin 2 receptor, alpha (IL2RA), mRNA /cds=(159,977)	1	ACTAATTTGATGTTTACAGGTGGACA CACAAGGTGCAAAATCAATGCGTAC
1945	Table 3A	Hs.75545	NM_000418	4557668	interleukin 4 receptor (IL4R), mRNA /cds=(175,2652)	1	TGTGTGTTTTAGTTTTCATCACCTGTTA TCTGTGTTTGCTGAGGAGAGTGG
1946	Table 3A	Hs.785	NM_000419	6006009	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41B) (ITGA2B), mRNA /cds=(32,3151)	1	TTGGAGCTGTTCCATTGGGTCCTCTT GGTGTCGTTCCCTCCCAACAGAG
1947	Table 3A	Hs.77318	NM_000430	6031206	platelet-activating factor acetylhydrolase, isoform Ib, alpha subunit (45kD) (PAFAH1B1), mRNA /cds=(555,1787)	1	ATTTGTTGCTCTCAGACTGTGTAAAA CAAAATTTATTCATGTTTTCTGCA
1948	Table 3A	Hs.949	NM_000433	4557786	neutrophil cytosolic factor 2 (65kD, chronic granulomatous disease, autosomal 2) (NCF2), mRNA /cds=(67,1647)	1	CTGAACCATTACTGTAATTGGCTCTT AAGGCTTGGAAGTAACCTTATAGGT
1949	Table 3A	Hs.78146	NM_000442	4505706	platelet/endothelial cell adhesion molecule (CD31 antigen) (PECAM1), mRNA /cds=(141,2357)	1	GCTAAGCTGCCGGTCTTAAATCCAT CCTGCTAAGTTAATGTTGGGTAGA
1950	db mining	Hs.166891	NM_000449	4557842	regulatory factor X, 5 (influences HLA class II expression) (RFX5), mRNA /cds=(161,2011)	1	TGTAACCAATAAATCTGTAGTGACCT TACCTGTATTCCCTGTGCTATCCT
1951	Table 3A	Hs.75428	NM_000454	4507148	superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult)) (SOD1), mRNA /cds=(0,464)	1	ACATTCCTTGGATGTAGTCTGAGGC CCTTAACTCATCTGTTATCCTGC
1952	Table 3A	Hs.83918	NM_000480	4502078	adenosine monophosphate deaminase (isoform E) (AMPD3), mRNA /cds=(344,2874)	1	ATTTCTCCCTTATCTACTGTGATGACT TCAGAAGATACAAATGGTCCAGG
1953	Table 3A	Hs.88251	NM_000487	7262293	arylsulfatase A (ARSA), mRNA /cds=(375,1898)	1	TGTCTGGAGGGGGTTTGTGCCTGATA ACGTAATAACACCAAGTGGAGACTT
1954	Table 3A	Hs.663	NM_000492	6995995	cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA /cds=(132,4574)	1	ACACTGCCTTCTCAACTCCAACTGA CTCTTAAGAAGACTGCATTATATT
1955	Table 3A	Hs.273385	NM_000516	8659565	guanine nucleotide binding protein (G protein), alpha stimulating activity polypeptide 1 (GNAS1), mRNA /cds=(68,1252)	1	AGATGTTCCAAATTTAGAAAGCTTAA GGCGGCCTACAGAAAAAGGAAAAA
1956	Table 3A	Hs.155376	NM_000518	13788565	hemoglobin, beta (HBB), mRNA /cds=(50,493)	1	AAGTCCAACACTAACTGGGGGATA TTATGAAGGGCCTTGAGCATCTGG
1957	Table 3A	Hs.119403	NM_000520	13128865	hexosaminidase A (alpha polypeptide) (HEXA), mRNA /cds=(26,1615)	1	ATCCACCTCCCTCCCTAGAGCTATT CTCTTTGGGTTTCTTGCTGCTGC
1958	Table 3A	Hs.51043	NM_000521	13128866	hexosaminidase B (beta polypeptide) (HEXB), mRNA /cds=(75,1745)	1	AAAAGGCCACAGCAATCTGTACTACA ATCAACTTTATTTTGAATCATGT
1959	literature	Hs.111749	NM_000534	11486979	postmeiotic segregation increased (S. cerevisiae) 1 (PMS1), mRNA /cds=(80,2878)	1	GATTAGTTACCATTGAAATTTGGTCT GTCATAAACAGCATGAGTCTGGT
1960	literature	Hs.177548	NM_000535	11125773	postmeiotic segregation increased (S. cerevisiae) 2 (PMS2), mRNA /cds=(24,2612)	1	AAAAATACACATCACACCCATTAAAA GTGATCTTGAGAACCTTTTCAAA
1961	db mining	Hs.301461	NM_000538	4506500	601845227F1 cDNA, 5' end /clone=IMAGE:4070407 /clone_end=5'	1	ACAGCAACAGCTATTAATCAGCAAG TTTTGAGCAAAGACAACAGCAGT
1962	literature	Hs.150477	NM_000553	5739523	Werner syndrome (WRN), mRNA /cds=(231,4529)	1	TGACCAGGGCAGTGAAATGAAACC GCATTTTGGGTGACATTAATAGGG
1963	Table 3A	Hs.82212	NM_000560	10834971	CD53 antigen (CD53), mRNA /cds=(93,752)	1	CAATTTCTTTATTAGAGGGCCTTATTG ATGTGTTCTAAGTCTTTCCAGAA
1964	Table 3A	Hs.77424	NM_000566	10835132	Fc fragment of IgG, high affinity Ia, receptor for (CD64) (FCGR1A), mRNA /cds=(0,1124)	1	AGAGCTGAAATGTCAGGAACAAAAAG AAGAACAGCTGCAGGAAGGGGTGC
1965	literature	Hs.334687	NM_000569	12056966	Fc fragment of IgG, low affinity IIIa, receptor for (CD16) (FCGR3A), mRNA /cds=(33,797)	1	GGTAATAAGAGCAGTAGCAGCAGCAT CTCTGAACATTTCTCTGGATTTCG
1966	Table 3A	Hs.1369	NM_000574	10835142	decay accelerating factor for complement (CD55, Cromer blood group system) (DAF), mRNA /cds=(65,1210)	1	AGAGTTTGAAAAAGCCTGTGAAAGG TGTCTTCTTGACTTAATGTCTTT
1967	Table 3A	Hs.1722	NM_000575	13236493	interleukin 1, alpha (IL1A), mRNA /cds=(36,851)	1	GTATGGTAGATTCAAATGAACCACTG AAAAGGCATTATGTTTCTTGTCCTC
1968	Table 3A	Hs.128256	NM_000576	10835144	interleukin 1, beta (IL1B), mRNA /cds=(86,895)	1	AGCTATGGAATCAATTCAATTTGGAC TGGTGTGCTCTCTTAAATCAAGT
1969	literature	Hs.54443	NM_000579	4502638	chemokine (C-C motif) receptor 5 (CCR5), mRNA /cds=(357,1415)	1	GCTCTTAAGTTGTGGAGAGTCAACA GTAGCATAGGACCTACCCTCTGG

Table 8

1970	Table 3A	Hs.313	NM_000582	4759165	secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1) (SPP1), mRNA /cds=(87,989)	1	GAATTTGGTGGTGTCAATTGCTTATTT GTTTTCCACGGTTGTCCAGCAA
1971	Table 3A	Hs.624	NM_000584	10834977	interleukin 8 (IL8), mRNA /cds=(74,373)	1	AAAACAGCCAAAACCTCCACAGTCAAT ATTAGTAATTTCTTGCTGGTTGAA
1972	Table 3A	Hs.168132	NM_000585	10835152	interleukin 15 (IL15), mRNA /cds=(316,804)	1	TAGCATTGTGTTAAGGGTGATAGTCA AATTATGTATTGGTGGGGCTGGGT
1973	Table 3A	Hs.89679	NM_000588	10835148	interleukin 2 (IL2), mRNA /cds=(47,517)	1	GCAGATGAGACAGCAACCATTGTAGA ATTCTGAACAGATGGATTACCTT
1974	Table 3A	Hs.694	NM_000588	4504666	interleukin 3 (colony-stimulating factor, multiple) (IL3), mRNA /cds=(9,467)	1	TCTAATTTCTGAAATGTGCAGCTCCC ATTTGGCCTGTGCGGTTGTGTTT
1975	literature	Hs.73917	NM_000589	4504668	interleukin 4 (IL4), mRNA /cds=(65,528)	1	ACCAGAGTACGTTGGAAAACTTCTTG GAAAGGCTAAAGACGATCATGAGA
1976	Table 3A	Hs.75627	NM_000591	4557416	CD14 antigen (CD14), mRNA /cds=(119,1246)	1	TGAGGACTTTTCGACCAATTCACCCC TTTGCCCCACCTTTATTTAAATCT
1977	Table 3A	Hs.158164	NM_000593	9665247	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) (TAP1), mRNA /cds=(30,2456)	1	GCTGGCCCATAAACCCCTGTAGGTT CTTGATATTATAATAAAATTTGGT
1978	Table 3A	Hs.241570	NM_000594	10835154	tumor necrosis factor (TNF superfamily, member 2) (TNF), mRNA /cds=(85,786)	1	CCCAGGGAGTTGTCTGTAAATCGG CCTACTATTCAAGTGGCGAGAAATAA
1979	Table 3A	Hs.119663	NM_000611	10835164	CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344) (CD59), mRNA /cds=(29,415)	1	TGATCTTGGCTGTATTTAATGGCATA GGCTGACTTTTGAGATGGAGGAA
1980	Table 3A	Hs.856	NM_000619	10835170	interferon, gamma (IFNG), mRNA /cds=(108,608)	1	TTGTTGACAACTGTGACTGTACCCAA ATGGAAAGTAACTCATTGTGTTAA
1981	Table 3A	Hs.172631	NM_000632	6060613	integrin, alpha M (complement component receptor 3, alpha; also known as CD11b (p170), macrophage antigen alpha polypeptide) (ITGAM), mRNA /cds=(75,3533)	1	GTCAAGATTGTGTTTGAGGTTTCCT TCAGACAGATTCCAGGCGATGTGC
1982	Table 3A	Hs.194778	NM_000634	4504680	interleukin 8 receptor, alpha (IL8RA), mRNA /cds=(100,1152)	1	TCACCAGTCCCTCCCCAATGCTTTC CATGAGTTGCAGTTTTTTCCTAGT
1983	Table 3A	Hs.318885	NM_000636	10835186	superoxide dismutase 2, mitochondrial (SOD2), mRNA /cds=(4,672)	1	TACTTTGGGGACTGTAGGGATGCCCT TTCTAGTCCTATTCTATTCGAGTT
1984	Table 3A	Hs.2007	NM_000639	4557328	tumor necrosis factor (ligand) superfamily, member 6 (TNFSF6), mRNA /cds=(157,1002)	1	CCATCGGTGAAACTAACAGATAAGCA AGAGAGATGTTTTGGGGACTCATT
1985	Table 3A	Hs.82848	NM_000655	5713320	selectin L (lymphocyte adhesion molecule 1) (SELL), mRNA /cds=(88,1208)	1	AGCTCCTCTTCTGGCTTCTTACTGA AAGGTTACCCTGTAACATGCAATT
1986	Table 3A	Hs.1103	NM_000680	10863872	transforming growth factor, beta 1 (TGFBI), mRNA /cds=(841,2016)	1	CACCAGGAACCTGCTTTAGTGGGGG ATAGTGAAGAAGACAATAAAAGATA
1987	Table 3A	Hs.157850	NM_000681	4506664	Homo sapiens, clone MGC:15545 IMAGE:3050745, mRNA, complete cds /cds=(1045,1623)	1	GGCTACAGAAAGAGATGCCAGATG ACACTTAAGACCTACTTGTGATATT
1988	Table 3A	Hs.89499	NM_000698	4502056	arachidonate 5-lipoxygenase (ALOX5), mRNA /cds=(44,2068)	1	GCATTTCCACACCAAGCAGCAACAGC AAATCACGACCACTGATAGATGTC
1989	Table 3A	Hs.78225	NM_000700	4502100	annexin A1 (ANXA1), mRNA /cds=(74,1114)	1	TCCCCAAACCAATAAACCTATACAA GTTGTTCTAGTAACAATACATGAG
1990	db mining	Hs.89485	NM_000717	9951925	carbonic anhydrase IV (CA4), mRNA /cds=(46,984)	1	GCTTCCGGTCTTAGCCTTCCCAGGT GGGACTTTAGGCATGATTTAAATAA
1991	Table 3A	Hs.97087	NM_000734	4557430	CD32 antigen, zeta polypeptide (TIT3 complex) (CD32), mRNA /cds=(178,689)	1	TGCTATTGCCCTTCTATTTTGCATAAT AAATGCTTCAGTGAAAAATGCAGC
1992	db mining	Hs.28408	NM_000752	4505032	leukotriene b4 receptor (chemokine receptor-like 1) (LTB4R), mRNA /cds=(1717,2775)	1	GGAAGAAGAGGGAGAGATGGAGCAA AGTGAGGGCCGAGTGAGAGCGTGCT
1993	Table 3A	Hs.2175	NM_000760	4503080	colony stimulating factor 3 receptor (granulocyte) (CSF3R), mRNA /cds=(169,2679)	1	ATCCAGCCCCACCAATGGCCTTTTG TGCTTGTTCCTATAACTTCAGTA
1994	literature	Hs.82568	NM_000784	13904863	cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1 (CYP27A1), mitochondrial protein encoded by nuclear gene, mRNA /cds=(201,1796)	1	CTCAGCTAAAGGCCACCCCTTTATC GCATTGCTGTCTTGGGTAGAATA
1995	Table 3A	Hs.709	NM_000788	4503268	deoxycytidine kinase (DCK), mRNA /cds=(159,941)	1	ACCTTATGAACTACAGTGGAGCTACA CTCATTGAAATGTAATTTCACTTC
1996	Table 3A	Hs.150403	NM_000790	4503280	dopa decarboxylase (aromatic L-amino acid decarboxylase) (DDC), mRNA /cds=(69,1511)	1	TCCAGGGCAATCAATGTTTACGCAAC TTGAAATTATATCTGTGGTCTTCA
1997	Table 3A	Hs.83765	NM_000791	7262376	dihydrofolate reductase (DHFR), mRNA /cds=(479,1042)	1	GCCAGATTGGGGCATTTGAAAGAA GTTTATTGAAGATAAAGCAAAAGT
1998	Table 3A	Hs.178681	NM_000801	4503724	Homo sapiens, tubulin, beta 5, clone MGC:4029 IMAGE:3617988, mRNA, complete cds /cds=(1705,3039)	1	CTGCACCCCTCCCCAGCACCATTTA TGAGTCTCAAGTTTATTATTGCA

Table 8

1999	Table 3A	Hs.324784	NM_000817	4503872	glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD67, mRNA /cds=(550,2334)	1	TTTTGAAGAAGGGAAATTCACACTGT GCGTTTTGAGTATGCAAGAAGAAT
2000	Table 3A	Hs.11899	NM_000859	4557642	3-hydroxy-3-methylglutaryl-Coenzyme A reductase (HMGCR), mRNA /cds=(50,2716)	1	TGTTGTGACTTTTTAGCCAGTGACTTT TTCTGAGCTTTTCATGGAAGTGG
2001	literature	Hs.1570	NM_000861	13435403	histamine receptor H1 (HRH1), mRNA /cds=(178,1641)	1	ACTTCACACAGACAAGTGGCTAAGTG TCCATTATTTACCTTGAACAATCA
2002	Table 3A	Hs.83733	NM_000873	10433041	cDNA FLJ11724 fis, clone HEMBA1005331 /cds=UNKNOWN	1	ACAGCCAACTGGAAAGATATAAAAGT TTGGGTCTGTCTCCTCTCCTTCAG
2003	Table 3A	Hs.82112	NM_000877	4504658	interleukin 1 receptor, type I (IL1R1), mRNA /cds=(82,1791)	1	ATTAAAGCACCAAATTCATGTACAGC ATGCATCAGGATCAATAGACTGT
2004	Table 3A	Hs.75596	NM_000878	4504664	interleukin 2 receptor, beta (IL2RB), mRNA /cds=(131,1786)	1	ATGGAAATGTGATTTGCCCTCTCCACT TTGGGAGGCTCCCACTTCTTGGG
2005	Table 3A	Hs.2247	NM_000879	4504670	interleukin 5 (colony-stimulating factor, eosinophil) (IL5), mRNA /cds=(44,448)	1	TCAGAGGGAAGTAAATATTTACAGGC ATACTGACACTTGGCCAGAAAGCA
2006	db mining	Hs.72927	NM_000880	4504676	interleukin 7 (IL7), mRNA /cds=(384,917)	1	GTGTAACACAGTGCCTTCAATAAATG GTATAGCAAATGTTTTGACATGAA
2007	literature	Hs.673	NM_000882	4504638	interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35) (IL12A), mRNA /cds=(169,828)	1	TGGGACTATTACATCCACATGATACC TCTGATCAAGTATTTTTGACATTT
2008	Table 3A	Hs.75432	NM_000884	4504688	IMP (inosine monophosphate) dehydrogenase 2 (IMPDH2), mRNA /cds=(47,1591)	1	CATTCGTATGAGAAGCGGCTTTTCTG AAAAGGGATCCAGCACACCTCCTC
2009	Table 3A	Hs.40034	NM_000885	6006032	Integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) (ITGA4), mRNA /cds=(1151,4267)	1	CTTCAGACTGAACATGTACACTGGTT TGAGCTTAGTGAAATGACTTCCGG
2010	Table 3A	Hs.51077	NM_000887	6006014	integrin, alpha X (antigen CD11C (p150), alpha polypeptide) (ITGAX), mRNA /cds=(58,3549)	1	TTTAAATGTTTGTGTTAATACACATTA AAACATCGCACAAAACGATGCA
2011	Table 3A	Hs.1741	NM_000889	4504776	Integrin, beta 7 (ITGB7), mRNA /cds=(151,2547)	1	GCAACCTTGCATCCATCTGGGCTACC CCACCCAGTATACAATAAAGTCT
2012	Table 3A	Hs.81118	NM_000895	4505028	leukotriene A4 hydrolase (LTA4H), mRNA /cds=(68,1903)	1	TGCTGGTGGGGAAGACTTAAAGATG GATTAAAGACTGCGTATTGATGA
2013	literature	Hs.456	NM_000897	4505040	leukotriene C4 synthase (LTC4S), mRNA /cds=(96,548)	1	AGGGGCGCTCGCTCCGCATCCTAG TCTCTATCATTAAAGTCTAGTGAC
2014	Table 3A	Hs.171880	NM_000937	14589948	polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A), mRNA /cds=(386,6298)	1	AGCTGATCCTCGGGAAGAACAAAGCT AAAGCTGCCTTTGTCTGTTATTT
2015	Table 3A	Hs.183842	NM_000942	4758949	ubiquitin B (UBB), mRNA /cds=(94,783)	1	CACAGGCCATGGACTCACTTTTGTGTA ACAAACTCCTACCAACTGACCA
2016	Table 3A	Hs.74519	NM_000947	4506052	primase, polypeptide 2A (58kD) (PRIM2A), mRNA /cds=(87,1616)	1	AGGAGGAGTTTCTATTAAATCTGTC ACTTGAGTGATGCTATTAAAGTCC
2017	Table 3A	Hs.199248	NM_000958	4506258	prostaglandin E receptor 4 (subtype EP4) (PTGER4), mRNA /cds=(388,1854)	1	CCTGTGCAATAGACACATACATGTCA CATTTAGCTGTGCTCAGAAAGGGCT
2018	Table 3A	Hs.199248	NM_000958	4506258	prostaglandin E receptor 4 (subtype EP4) (PTGER4), mRNA /cds=(388,1854)	1	CCTGTGCAATAGACACATACATGTCA CATTTAGCTGTGCTCAGAAAGGGCT
2019	Table 3A	Hs.250505	NM_000964	4506418	retinoic acid receptor, alpha (RARA), mRNA /cds=(102,1490)	1	TGCACCTGTTACTGTTGGGCTTTCCA CTGAGATCTACTGGATAAAGAATA
2020	Table 3A	Hs.119598	NM_000967	4506648	ribosomal protein L3 (RPL3), mRNA /cds=(6,1217)	1	AAGAAGGAGCTTAATGCCAGGAACA GATTTTGCAGTTGGTGGGGTCTCAA
2021	Table 3A	Hs.174131	NM_000970	4506658	ribosomal protein L6 (RPL6), mRNA /cds=(26,892)	1	AGGGCTACTCGCATCTGTGTTTGCT CTGACGAATGGAATTTATCTCTAC
2022	Table 3A	Hs.153	NM_000971	4506658	ribosomal protein L7 (RPL7), mRNA /cds=(10,756)	1	CCATGATTATTTTCTAAGCTGGTTG GTTAATAAACAGTACCTGCCTCA
2023	Table 3A	Hs.99858	NM_000972	4506660	ribosomal protein L7a (RPL7A), mRNA /cds=(31,831)	1	AAAGGCTAAAGAACTGCCACTAAAC TGGGTTAAATGTACACTGTTGAGT
2024	Table 3A	Hs.178551	NM_000973	4506662	ribosomal protein L8 (RPL8), mRNA /cds=(43,816)	1	GGAACCAAGACTGTGCAGGAGAAAG AGAAGTGTGCTGAGGGCTCAATA
2025	Table 3A	Hs.179943	NM_000975	4506594	ribosomal protein L11 (RPL11), mRNA /cds=(0,536)	1	TGGTTCACGAGAAGTATGATGGGAT CATCCTTCTGGCAAATAAATCC
2026	Table 3A	Hs.180842	NM_000977	4506598	ribosomal protein L13 (RPL13), mRNA /cds=(51,688)	1	TTGGTTGTTTGGTTAGTGACTGATGT AAAACGGTTTTCTGTGGGGAGGT
2027	Table 3A	Hs.234518	NM_000978	14591907	ribosomal protein L23 (RPL23)	1	ATGCTGGCAGCATTGCATGATCTCC AGTATATTTGTAATAAATAAATAA
2028	Table 3A	Hs.75458	NM_000979	4506606	ribosomal protein L18 (RPL18), mRNA /cds=(15,581)	1	CGGGCCAGCCGAGGCTACAAAAACT AACCTGGATCCTACTCTCTTATTA
2029	Table 3A	Hs.272822	NM_000981	4506608	RuvB (E coli homolog)-like 1 (RUVBL1), mRNA /cds=(76,1448)	1	ACCTCCCACTTTGTCTGTACATACTG GCCTCTGTGATTACATAGATCAGC
2030	Table 3A	Hs.184108	NM_000982	4506610	ribosomal protein L21 (gene or pseudogene) (RPL21), mRNA /cds=(33,515)	1	TTCAACTAAAGCGCCACTGCTGCCAC CCAGAGAAGCACACTTTGTGAGAA
2031	Table 3A	Hs.326249	NM_000983	4506612	ribosomal protein L22 (RPL22), mRNA /cds=(51,437)	1	TTGGAAATCATAGTCAAAGGGCTTCC TTGGTTCGCCACTCATTTATTTGT
2032	Table 3A	Hs.326249	NM_000983	4506612	ribosomal protein L22 (RPL22), mRNA /cds=(51,437)	1	TTGGAAATCATAGTCAAAGGGCTTCC TTGGTTCGCCACTCATTTATTTGT

Table 8

2033	Table 3A	Hs.184776	NM_000984	4506614	ribosomal protein L23a (RPL23A), mRNA /cds=(23,493)	1	CCTGATGGAGAGAAGAAGGCATATGTTCGACTGGCTCCTGATTACGATGC
2034	Table 3A	Hs.82202	NM_000985	14591906	ribosomal protein L17 (RPL17), mRNA /cds=(286,840)	1	CAGAAGAACTGAAGAAACAAAACATATGGCACGGGAGTAAATTCAGCA
2035	Table 3A	Hs.184582	NM_000986	4506618	ribosomal protein L24 (RPL24), mRNA /cds=(39,512)	1	GTTTCAGCTCCCGAGTTGGTGGAAAACGCTAACTGGCAGATTAGATT
2036	Table 3A	Hs.192760	NM_000987	4506620	kinesin family member 5A (KIF5A), mRNA /cds=(148,3246)	1	CTCCTGTTGGGTAAGGGTGTGAGTGTGACTTGTGCTGAAACCTGGTTC
2037	Table 3A	Hs.111611	NM_000988	4506622	ribosomal protein L27 (RPL27), mRNA /cds=(17,427)	1	GAACAAGTGGTCTTCCAGAACTGCGGTTTTAGATGCTTTGTTTGTATC
2038	Table 3A	Hs.76064	NM_000990	14141189	ribosomal protein L27a (RPL27A), mRNA /cds=(22,468)	1	GGCTTGAAGCCACATGGAGGGAGTTTCATTAAATGCTACTCTTTTAA
2039	Table 3A	Hs.184014	NM_000993	4506632	ribosomal protein L31 (RPL31), mRNA /cds=(7,384)	1	ATCTACAGACAGTCAATGTGGATGAGAACTAATCGTGATCAATAACCT
2040	Table 3A	Hs.169793	NM_000994	4506634	ribosomal protein L32 (RPL32), mRNA /cds=(34,441)	1	GCGCAGTGAAGAAATGAGTAGGCACTCATGTGCACGTTTTCTGTTTAA
2041	Table 3A	Hs.289093	NM_000996	4506638	cDNA FLJ11509 fis, clone HEMBA1002166 /cds=UNKNOWN	1	CAATCTTCTCTGCTAAGGCCATTGGACACAGAATCCGAGTGTGCTGTACC
2042	Table 3A	Hs.179779	NM_000997	4506640	ribosomal protein L37 (RPL37), mRNA /cds=(28,321)	1	GGCAGCTGTTGCAGCATCCAGTTCATCTTAAGAATGTCAACGATTAGTCA
2043	Table 3A	Hs.5566	NM_000998	4506642	ribosomal protein L37a (RPL37A), mRNA /cds=(17,295)	1	AGAGCTCTCTCTACTCTTTGGAGACA TCACTGGCCTATAATAAATGGGTT
2044	Table 3A	Hs.300141	NM_001000	4506646	cDNA FLJ14163 fis, clone NT2RP1000409 /cds=UNKNOWN	1	TCTGTTATGAACACGTTGGTTGGCTG GATTCAAGTAATAATGTGAAGGC
2045	Table 3A	Hs.119500	NM_001004	4506670	ribosomal protein, large P2 (RPLP2), mRNA /cds=(74,421)	1	TGAGAAGAAGGAGGAGTCTGAGAG TCAATGATGACATGGGATTGGCC
2046	Table 3A	Hs.155101	NM_001006	4506722	mRNA for KIAA1578 protein, partial cds /cds=(0,3608)	1	GCTAAAGTTGAACGAGCTGATGGATA TGAACCAACAGTCCAAAGAATCTGT
2047	Table 3A	Hs.180911	NM_001008	4506726	ribosomal protein S4, Y-linked (RPS4Y), mRNA /cds=(12,803)	1	GCTGGCCACCAACAGCAGTGGCG TAAATTGCAGTAGCAGCATATCTTT
2048	Table 3A	Hs.76194	NM_001009	13904869	ribosomal protein S5 (RPS5), mRNA /cds=(53,667)	1	GCCAGTCCAAACCGCTGATTTCCCA CTTGCTGCCCAATAAACCTGCTG
2049	Table 3A	Hs.301547	NM_001011	4506740	ribosomal protein S7 (RPS7), mRNA /cds=(81,665)	1	TGGTGTCTATAAAGCTCACGGGCA AGGATGTTAATTTTGAATTTCCAG
2050	Table 3A	Hs.182740	NM_001015	14277698	ribosomal protein S11 (RPS11), mRNA /cds=(33,509)	1	AGGCTGGACATCGGCCCTGCCCA CAATGAAATAAAGTTATTTTCTCAT
2051	Table 3A	Hs.165590	NM_001017	14591910	ribosomal protein S13 (RPS13), mRNA /cds=(32,487)	1	CATCTACAGCCTCTGCCCTGGTCGCA TAAATTTGCTGTTGTTACTCAAGCA
2052	Table 3A	Hs.80617	NM_001020	14591912	ribosomal protein S16 (RPS16), mRNA /cds=(52,492)	1	CTACCAGAAATCCTACCGATAAGCCC ATCGTACTCAAAACCTCACTTGTA
2053	Table 3A	Hs.5174	NM_001021	14591913	ribosomal protein S17 (RPS17), mRNA /cds=(25,432)	1	CTCGGGGACCTGTTGAATTTTCTT GTAGTGTCTATTATTTTCAATAA
2054	Table 3A	Hs.298262	NM_001022	14591914	ribosomal protein S19 (RPS19), mRNA /cds=(69,506)	1	GCTGCCAACAAGAAGCATTAGAACA AACCATGCTGGGTTTAATAATGGC
2055	Table 3A	Hs.182979	NM_001024	14670385	cDNA: FLJ22838 fis, clone KIAA4494, highly similar to HUML12A ribosomal protein L12 mRNA /cds=UNKNOWN	1	GATGGCATCGTCTCAAAGAACTTTTG ACTGGAGAGAATCACAGATGTGGA
2056	Table 3A	Hs.182979	NM_001024	14670385	cDNA: FLJ22838 fis, clone KIAA4494, highly similar to HUML12A ribosomal protein L12 mRNA /cds=UNKNOWN	1	GATGGCATCGTCTCAAAGAACTTTTG ACTGGAGAGAATCACAGATGTGGA
2057	Table 3A	Hs.251664	NM_001025	14790142	DNA for insulin-like growth factor II (IGF-2); exon 7 and additional ORF /cds=(0,233)	1	CCAATGTTTCTCTTTTGGCCCTATACA AAGGCAAGAAGGAAAGACCAAGA
2058	Table 3A	Hs.180450	NM_001026	14916502	ribosomal protein S24 (RPS24), transcript variant 1, mRNA /cds=(37,429)	1	CTGGCAAAAAGCCGAAGGAGTAAAG GTGCTGCAATGATGTTAGCTGTGGC
2059	Table 3A	Hs.113029	NM_001028	14591916	ribosomal protein S25 (RPS25), mRNA /cds=(63,440)	1	TGGTGAAGATGCATGAATAGGTCCAA CCAGCTGTACATTTGAAAAATAA
2060	Table 3A	Hs.539	NM_001032	13904868	ribosomal protein S29 (RPS29), mRNA /cds=(30,200)	1	GCCAGTGTTCCGTCAGTACGCGAA GGATATCGGTTTCATTAACTTGGAC
2061	Table 3A	Hs.2934	NM_001033	4506748	ribonucleotide reductase M1 polypeptide (RRM1), mRNA /cds=(187,2565)	1	GAGTGATAACTCATGAGAAGTACTGA TAGGACCTTTATCTGGATATGGTC
2062	Table 3A	Hs.172129	NM_001046	4506974	cDNA: FLJ21409 fis, clone COL03924 /cds=UNKNOWN	1	GGTGATTCTTCTCTGTTGAAGTGAAG TTTGTGAGAGTAGTTTCTCTTTC
2063	Table 3A	Hs.256278	NM_001066	4507576	tumor necrosis factor receptor superfamily, member 1B (TNFRSF1B), mRNA /cds=(89,1474)	1	TGTGTGTTGATCCCAAGACAATGAAA GTTTGCACTGTATGCTGGACGGCA
2064	literature	Hs.156346	NM_001067	4507632	topoisomerase (DNA) II alpha (170kD) (TOP2A), mRNA /cds=(36,4631)	1	GGGGAAGGTTGTTTTAGTACAAGACA TCAAAGTGAAGTAAAGCCCAAGTG
2065	Table 3A	Hs.75248	NM_001068	11225253	topoisomerase (DNA) II beta (180kD) (TOP2B), mRNA /cds=(0,4865)	1	AGGAAAACATCCAAAACAACAGCAA GAAACCGAAGAAGACATCTTTTGA
2066	Table 3A	Hs.174140	NM_001096	4501864	ATP citrate lyase (ACLY), mRNA /cds=(84,3401)	1	AGCTGCCACCTCAGTCTCTCTCTGT ATTATCATAGTTCTGGTTTAAATAA
2067	Table 3A	Hs.288061	NM_001101	5016088	actin, beta (ACTB), mRNA /cds=(73,1200)	1	GGAGGCAGCCAGGGCTTACCTGTAC ACTGACTTGAGACCAAGTTGAATAAA
2068	db mining	Hs.150402	NM_001105	10862690	activin A receptor, type I (ACVR1), mRNA /cds=(340,1869)	1	AGCAAAGATTTCAGTAGAATTTTAGT CCTGAACGCTACGGGGAAATGCA

Table 8

2069	Table 3A	Hs.172028	NM_001110	4557250	a disintegrin and metalloproteinase domain 10 (ADAM10), mRNA /cds=(469,2715)	1	TGGTGGTATTCAAGTGGTCCAGGATTC TGTAATGCTTTACACAGGCAGTTT
2070	Table 3A	Hs.7957	NM_001111	7669471	adenosine deaminase, RNA-specific (ADAR), transcript variant ADAR-a, mRNA /cds=(187,3867)	1	TGCTTTTATGTGTCCTTGTATAACAGT GACTTAACAATATACATTCTCA
2071	Table 3A	Hs.172199	NM_001114	4557254	adenylate cyclase 7 (ADCY7), mRNA /cds=(265,3507)	1	TTGTTTCAAATGCTGTTTCATTTTAA TAAAGTACCAGTGTTAGCTGCT
2072	Table 3A	Hs.3416	NM_001122	4557260	adipose differentiation-related protein (ADFP), mRNA /cds=(0,1313)	1	AGAGATGGACAAGAGCAGCCAGGAG ACCCAGCGATCTGAGCATAAACTC
2073	literature	Hs.394	NM_001124	4501944	adrenomedullin (ADM), mRNA /cds=(156,713)	1	TGAAAGAGAAAGACTGATTACCTCCT GTGTGGAAGAAGGAAACACCGAGT
2074	literature	Hs.278398	NM_001151	4502096	DNA sequence from clone RP1-202D23 on chromosome 6q14.1-15 Contains part of the gene for N-acetylglucosamine-phosphate mutase, part of a gene for a novel protein, ESTs, STSs and GSSs /cds=(0,5916)	1	GGAATACCTCAGAAGAGATGCTTCAT TGAGTGTTCATTAAACCAACAGATG
2075	Table 3A	Hs.300711	NM_001154	4809273	annexin A5 (ANXA5), mRNA /cds=(192,1154)	1	ACCATGATACTTTAATTAGAAGCTTAG CCTTGAAATTTGTGAACCTTTGGA
2076	Table 3A	Hs.300711	NM_001154	4809273	annexin A5 (ANXA5), mRNA /cds=(192,1154)	1	ACCATGATACTTTAATTAGAAGCTTAG CCTTGAAATTTGTGAACCTTTGGA
2077	Table 3A	Hs.118798	NM_001155	4809274	annexin A6 (ANXA6), transcript variant 1, mRNA /cds=(170,2191)	1	GCCTCTGCCCTGGTTTGGCTATGTCA GATCCAATAAACCTCCTGAACCTC
2078	Table 3A	Hs.75510	NM_001157	4557316	annexin A11 (ANXA11), mRNA /cds=(178,1695)	1	TGCCTTTTCTACCCCTCCCTCACAG CCTCTTGCTGCTAAATAGATGTT
2079	Table 3A	Hs.14142	NM_001161	4502124	nudix (nucleoside diphosphate linked moiety X)-type motif 2 (NUDT2), mRNA /cds=(174,817)	1	GGCCAGGCCCAAGTAAGTGACCTT GTACTTTTATAAATAAACCTGACGA
2080	Table 3A	Hs.289107	NM_001166	10880127	baculoviral IAP repeat-containing 2 (BIRC2), mRNA /cds=(1159,3015)	1	GCCGAATTGCTTTTGGTGCTTTTCAC TTGTGTTTTAAATAAGGATTTTT
2081	Table 3A	Hs.83656	NM_001175	10835001	Rho GDP dissociation inhibitor (GDI) beta (ARHGDIB), mRNA /cds=(152,757)	1	CCCTGCCAGAGGGAGTCTCTCTTTT GTGAGAGACACTGTAACGACACA
2082	Table 3A	Hs.74515	NM_001178	4502232	aryl hydrocarbon receptor nuclear translocator-like (ARNTL), mRNA /cds=(145,1896)	1	AGAAGTCCCCCATGTGGATATTCTT ATACTAATTGTATCATAAAGCCGT
2083	Table 3A	Hs.6551	NM_001183	4557340	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump), subunit 1 (ATP6S1), mRNA /cds=(1353,2198)	1	GGGCAGGAGCATGGGGTGCTTGGTT GTTTCCTTCTAATAAAATAAACGC
2084	literature	Hs.77613	NM_001184	4502324	ataxia telangiectasia and Rad3 related (ATR), mRNA /cds=(79,8013)	1	ATGCATTTGGTATGAATCTGTGGTTG TATCTGTTCATTTCTAAAGTACAA
2085	literature	Hs.2556	NM_001192	4507572	tumor necrosis factor receptor superfamily, member 17 (TNFRSF17), mRNA /cds=(218,772)	1	TTCTCTAGGTACTGTGGGAGCTTA ATGGTAGAAACTTCTCTGGTTTCA
2086	literature	Hs.158303	NM_001198	4557362	PR domain containing 1, with ZNF domain (PRDM1), mRNA /cds=(223,2592)	1	CCTCCCAGCAACCCACTACCTCTGGT ACCTGTAAAGGTCAAACAAGAAAC
2087	db mining	Hs.87223	NM_001203	4502430	bone morphogenetic protein receptor, type IB (BMPRI1B), mRNA /cds=(273,1781)	1	CCGTGTCTGTTTGTAGGCGGAGAAAC CGTTGGGTAACTTGTTCAGATAT
2088	Table 3A	Hs.53250	NM_001204	4755129	bone morphogenetic protein receptor, type II (serine/threonine kinase) (BMPRII), mRNA /cds=(408,3524)	1	TGAGGGTGAGGGCAGGCTGAGGCAA CGAGTGGGAGGTTCAAACAAGAGTG
2089	Table 3A	Hs.101025	NM_001207	4502464	basic transcription factor 3 (BTF3), mRNA /cds=(0,476)	1	CCCAAACAATCTGTGGATGAAAAGC ACCACTTGCTACTGGAGAGGATGA
2090	Table 3A	Hs.321247	NM_001225	4502578	mRNA; cDNA DKFZp586A181 (from clone DKFZp586A181); partial cds /cds=(0,314)	1	AATCAACTCAAGGAGACACCTTCATT AGTACAGCTTGCATATTAAACATT
2091	db mining	Hs.19949	NM_001228	4502582	mRNA for MACH-alpha-1 protein /cds=(291,1730)	1	AGGCGATGATATTCTCACCATCTGA CTGAAGTGAACTATGAAGTAAGCA
2092	literature	Hs.514	NM_001239	4502622	cyclin H (CCNH), mRNA /cds=(60,1031)	1	TGACGACCTGGTAGAATCTCTCTAAC CATTTGAAGTTGATTTCTCAATGC
2093	Table 3A	Hs.180841	NM_001242	4507586	tumor necrosis factor receptor superfamily, member 7 (TNFRSF7), mRNA /cds=(100,882)	1	GCTGCGAAAGACCCACATGCTACAA GACGGGCAAAATAAAGTGACAGATG
2094	Table 3A	Hs.1314	NM_001243	4507588	tumor necrosis factor receptor superfamily, member 8 (TNFRSF8), mRNA /cds=(222,2009)	1	CGCCCATGATGGGAGGGATTGACAT GTTTCAACAAAATAATGCATTCTCT
2095	literature	Hs.1313	NM_001244	4507606	tumor necrosis factor (ligand) superfamily, member 8 (TNFSF8), mRNA /cds=(114,818)	1	TCTTTCAGATAGCAGGCAGGGAAGCA ATGTAGTGTGGTGGGAGAGCCCC
2096	db mining	Hs.25648	NM_001250	4507580	tumor necrosis factor receptor superfamily, member 5 (TNFRSF5), mRNA /cds=(47,880)	1	CAGGAGGATGGCAAAGAGAGTCGCA TCTCAGTGACGAGAGACAGTGAGG
2097	Table 3A	Hs.99899	NM_001252	4507604	tumor necrosis factor (ligand) superfamily, member 7 (TNFSF7), mRNA /cds=(137,718)	1	GGGGGTAGTGGTGGCAGGACAAGAG AAGGCATTGAGCTTTTCTTTTCATT



Table 8

2098	db mining	Hs.76688	NM_001266	7262373	carboxylesterase 1 (monocyte/macrophage serine esterase 1) (CES1), mRNA /cds=(67,1767)	1	GCCATGAAGGAGCAAGTTTGTATTT GTGACCTCAGCTTTGGGAATAAAG
2099	Table 3A	Hs.22670	NM_001270	4557446	chromodomain helicase DNA binding protein 1 (CHD1), mRNA /cds=(163,5292)	1	GCTACTTGTTTACATTGTCACTGCG ACCACCTTGCCGCTTTTCATCACA
2100	literature	Hs.20295	NM_001274	4502802	CHK1 (checkpoint, S.pombe) homolog (CHEK1), mRNA /cds=(34,1464)	1	ACCAAGTTTCAGGGGACATGAGTTTT CCAGCTTTTATACACAGTATCTC
2101	db mining	Hs.306440	NM_001278	4502842	mRNA; cDNA DKFp566L084 (from clone DKFp566L084) /cds=UNKNOWN	1	GGCAAATGAGGAACAGGGCAATAGT ATGATGAATCTTGATTGGAGTTGGT
2102	Table 3A	Hs.301921	NM_001295	4502630	chemokine (C-C motif) receptor 1 (CCR1), mRNA /cds=(62,1129)	1	TGTTCTTCATCTAAGCCTTCTGGTTTT ATGGGTGAGAGTTCCGACTGCCA
2103	Table 3A	Hs.285313	NM_001300	9981346	core promoter element binding protein (COPEB)	1	TATACCATGAGATGAGATGACCACCA ATCATTTCCTTGGGGGAGGGGGT
2104	Table 3A	Hs.90073	NM_001316	4503072	chromosome segregation 1 (yeast homolog)-like (CSE1L), mRNA /cds=(123,3038)	1	CCTAGGAAATCACAGGCTTCTGAGCA CAGCTGCATTAAACAAAGGAAGT
2105	Table 3A	Hs.82890	NM_001344	4503252	defender against cell death 1 (DAD1), mRNA /cds=(66,407)	1	AAATGTAACCTTTTGCTTCCAAATTA AAGAACTCCATGCCACTCCTCAA
2106	Table 3A	Hs.172690	NM_001345	11415023	diacylglycerol kinase, alpha (80kD) (DGKA), mRNA /cds=(103,2310)	1	ACACACATACACACACCCCAAAACAC ATACATTGAAAGTGCCTCATCTGA
2107	Table 3A	Hs.301305	NM_001352	4503262	Homo sapiens, clone MGC:13202 IMAGE:3677638, mRNA, complete cds /cds=(368,2330)	1	GACCCTATCCTCCACCGCTCCGTT AACACGATCCTGAATAAATCTTGA
2108	Table 3A	Hs.306098	NM_001353	5453542	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) (AKR1C1), mRNA /cds=(8,977)	1	ACAGCAAAGCCCATGGCCAGAAAG GAAAGACAATAATTTGTTTTTCA
2109	Table 3A	Hs.74578	NM_001357	13514819	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 9 (RNA helicase A, nuclear DNA helicase II; leukophysin) (DDX9), transcript variant 1, mRNA /cds=(80,3919)	1	AAGGAGTAAAGATTGCGCTTAAATA ACTTGGTATTTTCTGGCTTTCGT
2110	Table 3A	Hs.4747	NM_001363	4503336	dyskeratosis congenita 1, dyskerin (DKC1), mRNA /cds=(92,1636)	1	GGCCTCGTTTACTTTTAAAAATGAAA TTGTTCACTGCTGGGAGAAGAAT
2111	Table 3A	Hs.77462	NM_001379	4503350	DNA (cytosine-5-)methyltransferase 1 (DNMT1), mRNA /cds=(237,5087)	1	TCAACTAATGATTAGTGATCAAAATTG TGCAGTACTTTGTGCAATCTGGA
2112	Table 3A	Hs.154210	NM_001400	13027635	endothelial differentiation, sphingolipid G-protein-coupled receptor, 1 (EDG1), mRNA /cds=(243,1391)	1	TAGGTTTCTGACTTTTGTGGATCATTT TGCACATAGCTTTATCAACTTTT
2113	Table 3A	Hs.274466	NM_001403	4503472	eukaryotic translation elongation factor 1 alpha 1-like 14 (EEF1A1L14), mRNA /cds=(620,1816)	1	AAATCAGTACTTTTTAATGGAACAAC TTGACCCCAAAATTTGTACAGA
2114	Table 3A	Hs.2186	NM_001404	4503480	Homo sapiens, eukaryotic translation elongation factor 1 gamma, clone MGC:4501 IMAGE:2964623, mRNA, complete cds /cds=(2278,3231)	1	AGATCTTCAAGTGAACATCTCTTGCC ATCACCTAGCTGCCTGCACCTGCC
2115	Table 3A	Hs.129673	NM_001416	4503528	eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1), mRNA /cds=(16,1236)	1	CAGGAGGGGGGAGGGGAAGGGAGCC AAGGGATGGACATCTGTCAATTTTT
2116	Table 3A	Hs.93379	NM_001417	4503532	eukaryotic translation initiation factor 4B (EIF4B), mRNA /cds=(0,1835)	1	GCAAGTATGCTGCTCTCTGTGTGAT GGTGAAGATGAAAATGAGGGAGAA
2117	Table 3A	Hs.183684	NM_001418	4503538	eukaryotic translation initiation factor 4 gamma, 2 (EIF4G2), mRNA /cds=(306,3029)	1	TTGTGGGTGTGAACCAATGGTGAGAA ATTTGAATTGCTCCTCTATTAT
2118	Table 3A	Hs.229533	NM_001420	5231299	ol06d12.s1 cDNA, 3' end /clone=IMAGE:1522679 /clone_end=3'	1	AAAGGGAAAAAGACCTCGTGAGAAT TTTTACTGGGGATTCTTGAACCTG
2119	Table 3A	Hs.151139	NM_001421	4503554	E74-like factor 4 (ets domain transcription factor) (ELF4), mRNA /cds=(382,2373)	1	AAATGTATTACTATGCGTGTTCAG CAGTTGGCATTAAAGTGCCTTTT
2120	Table 3A	Hs.79368	NM_001423	4503558	epithelial membrane protein 1 (EMP1), mRNA /cds=(218,691)	1	ATTTCATTACTCTGGTGGATTGTTCT AGTACTGTATTGGGCTTCTTCGT
2121	Table 3A	Hs.9999	NM_001425	4503562	epithelial membrane protein 3 (EMP3), mRNA /cds=(241,732)	1	GAGGAGGTCTCTTCTATGCCACCGG CCTCTGCCAGCTTTGGACACCGTG
2122	Table 3A	Hs.254105	NM_001428	4503570	enolase 1, (alpha) (ENO1), mRNA /cds=(94,1398)	1	GCTAGATCCCGGTGGTTTTGTGCTC AAAATAAAAAGCCTCAGTGACCCA
2123	Table 3A	Hs.115263	NM_001432	4557566	epiregulin (EREG), mRNA /cds=(166,675)	1	TTTGAAGAGCCATTTTGGTAAACCGT TTTTATTAAAGATGCTATGGAACA
2124	Table 3A	Hs.99853	NM_001436	12056464	fibrillarin (FBL), mRNA /cds=(59,1024)	1	GTCAGGATTGCCAGAGATGTGTGTG ATACTGTTGCACGTGTGTTTTTCT
2125	Table 3A	Hs.153179	NM_001444	4557580	fatty acid binding protein 5 (psoriasis-associated) (FABP5), mRNA /cds=(48,455)	1	CATGCAGCTATTTCAAAGTGTGTGG ATTAATTAGGATCATCCCTTTGGT
2126	Table 3A	Hs.14845	NM_001455	4503738	forkhead box O3A (FOXO3A), mRNA /cds=(824,2945)	1	TAATGGCCCTTACCCTGGGTGAAGC ACTTACCCTTGAACAGAAGCTCTA



Table 8

2127	Table 3A	Hs.428	NM_001459	4503750	fms-related tyrosine kinase 3 ligand (FLT3LG), mRNA /cds=(92,799)	1	AAGGCCTCATCTCTGGGGAGGATACG TAGGCACACAGAGGGGAGTCACCAG
2128	Table 3A	Hs.99855	NM_001462	4503780	formyl peptide receptor-like 1 (FPRL1), mRNA /cds=(772,1827)	1	TGGGGTAAGTGGAGTTGGGAAATAC AAGAAGAGAAAGACCACTGGGGATT
2129	Table 3A	Hs.58435	NM_001465	4503820	FYN-binding protein (FYB-120/130) (FYB), mRNA /cds=(30,2381)	1	ACCTAGCGGACAATGATGGAGAGAT CTATGATGATATTGCTGATGGCTGC
2130	Table 3A	Hs.197345	NM_001469	4503840	thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA /cds=(17,1848)	1	GTGATGGTGTAGCCCTCCCACTTTGC TGTTCTTACTTTACTGCCTGAAT
2131	Table 3A	Hs.56845	NM_001494	6598322	GDP dissociation inhibitor 2 (GDI2), mRNA /cds=(152,1489)	1	GCCTCTACTTCTGTCTCAAATGGCT CCAAATGATTTCTGTACTGCAAAA
2132	Table 3A	Hs.272529	NM_001503	4504088	glycosylphosphatidylinositol specific phospholipase D1 (GPLD1), mRNA /cds=(32,2557)	1	TCTCCTCCACAGTTTATTTCTCGCT TCCTTTGCATCTAAACCTTTCTT
2133	literature	Hs.191356	NM_001515	6681761	general transcription factor IIH, polypeptide 2 (44kD subunit) (GTF2H2), mRNA /cds=(0,1187)	1	ACACTGTTGCCCTGGCTGTATTCATA AGATTCAGCTCCTTCAGGTGTTT
2134	literature	Hs.90304	NM_001516	4504198	general transcription factor IIH, polypeptide 3 (34kD subunit) (GTF2H3), mRNA /cds=(0,911)	1	GTCAATATTCTGCAATTCAGCCCCA TTTGTAAGTACGTGCGAGACAGCCT
2135	literature	Hs.102910	NM_001517	4504200	general transcription factor IIH, polypeptide 4 (52kD subunit) (GTF2H4), mRNA /cds=(127,1515)	1	GGCGGGAGCTGGGCGGGGCGGGGCA TCAGAACTCAGGTGTTTTTATTAC
2136	Table 3A	Hs.197540	NM_001530	4504384	hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor) (HIF1A), mRNA /cds=(264,2744)	1	TTCTTTTGCTCTTTGTGGTTGGATCT AACACTAACTGTAATGTTTTGTT
2137	Table 3A	Hs.235887	NM_001535	4504494	HMT1 (hnRNP methyltransferase, S. cerevisiae)-like 1 (HRMT1L1), mRNA /cds=(165,1466)	1	ACGCTCTCCAATAAATATGTGTTG GTGCCATCGACATGCTCAATAAA
2138	Table 3A	Hs.94	NM_001539	4504510	heat shock protein, DNAJ-like 2 (HSJ2), mRNA /cds=(82,1275)	1	AGGTGGTGTTCAGTGTCAGACCTCTT AATGGCCAGTGAATAACACTCACT
2139	Table 3A	Hs.20315	NM_001548	4504584	interferon-induced protein with tetratricopeptide repeats 1 (IFIT1), mRNA /cds=(64,1500)	1	CTGAGACTGGCTGCTGACTTTGAGAA CTCTGTGAGACAAGGTCCTTAGGC
2140	Table 3A	Hs.181874	NM_001549	4504586	interferon-induced protein with tetratricopeptide repeats 4 (IFIT4), mRNA /cds=(61,1533)	1	GCAGGGAAGCTTTGCATGTTGCTCTA AGGTACATTTTAAAGAGTTGTTT
2141	Table 3A	Hs.7879	NM_001550	4504606	interferon-related developmental regulator 1 (IFRD1), mRNA /cds=(219,1580)	1	CGAACCAAAGCTAGAAGCAATGTGCG AGATAAGAGAGCAGATGTTGGAGA
2142	Table 3A	Hs.239189	NM_001551	4557662	glutaminase (GLS), mRNA /cds=(19,2028)	1	GGAAGGAAAGAGTGTGAGAAATG GCTCTGTATAATCTATGGCTATCCG
2143	db mining	Hs.846	NM_001557	4504682	interleukin 8 receptor, beta (IL8RB), mRNA /cds=(408,1490)	1	ACCAAGGCTAGAACCACCTGCCTATA TTTTTTGTTAAATGATTTCATTCA
2144	Table 3A	Hs.327	NM_001558	4504632	interleukin 10 receptor, alpha (IL10RA), mRNA /cds=(61,1797)	1	CCTCTGCCAAAGTACTCTTAGGTGCC AGTCTGGTAAGTGAATCCCTCTG
2145	literature	Hs.73895	NM_001561	5730094	tumor necrosis factor receptor superfamily, member 9 (TNFRSF9), mRNA /cds=(139,906)	1	AAAATAATGCACCACTTTTAACAGAA CAGACAGATGAGGACAGAGCTGGT
2146	Table 3A	Hs.83077	NM_001562	4504652	interleukin 18 (interferon-gamma-inducing factor) (IL18), mRNA /cds=(177,758)	1	GAATTGGGGGATAGATCTATAATGTT CACTGTTCAAAACGAAGACTAGCT
2147	Table 3A	Hs.107153	NM_001564	4504694	inhibitor of growth family, member 1-like (ING1L), mRNA /cds=(91,933)	1	CCGTTTGCTTTTCAGAAAATGTTTTAG GGTAAATGCATAAGCACTATGGAAT
2148	Table 3A	Hs.2248	NM_001565	4504700	small inducible cytokine subfamily B (Cys-X-Cys), member 10 (SCYB10), mRNA /cds=(66,362)	1	CCCAAATCTTTCACTGGCTACCTAC ATACAAATCCAAACACATACAGGA
2149	Table 3A	Hs.32944	NM_001566	4504704	inositol polyphosphate 4-phosphatase, type I, 107kD (INPP4A), transcript variant b, mRNA /cds=(294,3158)	1	AAATTAATAAGTCACAAGAAAAACAA AGTGCCAGAAGATGTCCAGCCAC
2150	Table 3A	Hs.106673	NM_001568	4503520	eukaryotic translation initiation factor 3, subunit 6 (48kD) (EIF3S6), mRNA /cds=(22,1359)	1	AGAGGCTCCTAACTGGGCAACTCAA GATTCTGGCTTCTACTGAAGACCA
2151	Table 3A	Hs.14376	NM_001614	11038618	actin, gamma 1 (ACTG1), mRNA /cds=(74,1201)	1	GGTTTTCTACTGTTATGTGAGAACATT AGGCCCCAGCAACACGTCATTGT
2152	Table 3A	Hs.83638	NM_001619	6138971	adrenergic, beta, receptor kinase 1 (ADRBK1), mRNA /cds=(85,2154)	1	CAGCTTCTGCCACTTCCAGGTAAGC AGGAGGAGGTGCCAACAGTTGATG
2153	Table 3A	Hs.170087	NM_001621	5016091	aryl hydrocarbon receptor (AHR), mRNA /cds=(543,3189)	1	ACCATTTTTGTACTCTCTTCCACATG TACTGGATAAATGTTTGTAGTG
2154	Table 3A	Hs.75313	NM_001628	4502048	aldo-keto reductase family 1, member B1 (aldose reductase) (AKR1B1), mRNA /cds=(45,995)	1	GTGCCACTAACGGTTGAGTTTGAAGT GCTTGGAACTGGAATCCTTTTCAGC
2155	Table 3A	Hs.100194	NM_001629	4502058	arachidonate 5-lipoxygenase-activating protein (ALOX5AP), mRNA /cds=(30,515)	1	TCTCCACCACCATCTCCCCTCACTT CTCATTTCTACTCTCTGTCTGAA
2156	Table 3A	Hs.262476	NM_001634	5209326	S-adenosylmethionine decarboxylase 1 (AMD1), mRNA /cds=(320,1324)	1	GGTGTGGACTTAAATCAGTTGAAAT GTATTTCTGTACCACAATTTACGC
2157	Table 3A	Hs.82542	NM_001637	4502114	acyloxyacyl hydrolase (neutrophil) (AOAH), mRNA /cds=(274,2001)	1	CCCTTCGGCTGTTCTGAAATAACCT TTCATAAAGTGCTTTGGGTGCCAT

Table 8

2158	Table 3A	Hs.73722	NM_001641	4502136	APEX nuclease (multifunctional DNA repair enzyme) (APEX), mRNA /cds=(205,1161)	1	TTCTCATGTATAAACTAGGAATCCTC CAACCAGGCTCCTGTGATAGAGT
2159	literature	Hs.288650	NM_001650	4755123	aquaporin 4 (AQP4), transcript variant a, mRNA /cds=(39,1010)	1	AGACACGTCTATCAGCTTATTCCTTC TCTACTGGAATATTGGTATAGTCA
2160	Table 3A	Hs.792	NM_001656	4502196	ADP-ribosylation factor domain protein 1, 64kD (ARFD1), mRNA /cds=(22,1746)	1	TGTCTGGTAACAAGATGTGACTTTTT GGTAGCACTGTTGTGGTTCACTCT
2161	Table 3A	Hs.270833	NM_001657	4502198	amphiregulin (schwannoma-derived growth factor) (AREG), mRNA /cds=(209,967)	1	TCCTCTTTCCAGTGGATCATAAGACA ATGGACCCCTTTTGTATGATGGT
2162	literature	Hs.74571	NM_001658	6995997	ADP-ribosylation factor 1 (ARF1), mRNA /cds=(75,620)	1	ACTGTTTTGTACTTGTTTTCAGTTT TCATTTTCGACAAACAAGCACTGT
2163	literature	Hs.183153	NM_001661	4502206	ADP-ribosylation factor 4-like (ARF4L), mRNA /cds=(156,761)	1	ACATAGTTTTTATTTTTGTGTCTGTGA AAGTGCCAAGAACCCTCCCCAC
2164	Table 3A	Hs.77273	NM_001664	10835048	ras homolog gene family, member A (ARHA), mRNA /cds=(151,732)	1	TCACCTGGACTTAAGCGCTCTGGCTCT AATTCACAGTGCTCTTCTCCTCA
2165	Table 3A	Hs.3109	NM_001666	11386132	Rho GTPase activating protein 4 (ARHGAP4), mRNA /cds=(42,2882)	1	AGATGCCCTGGCAGGCTGGGTGGCG ATTCAATAAGACCTCGTGTGATTC
2166	Table 3A	Hs.181243	NM_001675	4502264	activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4), mRNA /cds=(881,1936)	1	GGATAGTCAGGAGCGTCAATGTGCTT GTACATAGAGTGCTGTAGCTGTGT
2167	Table 3A	Hs.76941	NM_001679	4502280	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 3 polypeptide (ATP1B3), mRNA /cds=(0,839)	1	TTGTGAATATCTTGTACTGCTTTTA TTAGCAGACTGTGGACTGTAAT
2168	Table 3A	Hs.73851	NM_001685	4502292	ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit F6 (ATP5J), mRNA /cds=(1,327)	1	CTGGAGGACCTGTTGATGCTAGTTCA GAGTATCACCAGAGCTGGAGAGG
2169	Table 3A	Hs.8110	NM_001686	4502294	L-3-hydroxyacyl-Coenzyme A dehydrogenase, short chain (HADHSC), mRNA /cds=(87,1031)	1	GCTGCACAAGACCTTGATTGAAGAT ATATTTCTTCTGAACAGATTTAA
2170	Table 3A	Hs.81634	NM_001688	4502298	ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit b, isoform 1 (ATP5F1), mRNA /cds=(32,802)	1	TTGCCCTTTATAAAACTTGCTGCCTG ACTAAAGATTACAGGTTATAGTT
2171	Table 3A	Hs.1697	NM_001693	4502310	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump), beta polypeptide, 56/58kD, isoform 2 (ATP6B2), mRNA /cds=(25,1560)	1	TGGTCTGCTCTTTTGACCTCTCTCTAC CTTTTCAGGGTAATCTTTGTGGC
2172	Table 3A	Hs.86905	NM_001695	4502314	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) 42kD (ATP6C), mRNA /cds=(166,1314)	1	CCTGTCCTTGTTGTGTGTGTCTAA CAGAAATAAGTTGCAGTATGGTCG
2173	Table 3A	Hs.76572	NM_001697	4502302	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP5O), mRNA /cds=(36,677)	1	AAAAGTGTGGTTTTCTGCCATCAGT GAAAATCTTAAACTTGGAGCAAC
2174	db mining	Hs.155024	NM_001708	4502382	B-cell CLL/lymphoma 6 (zinc finger protein 51) (BCL6), mRNA /cds=(327,2447)	1	AGGGTTTGGCTGTGTCTAACTGCAT TACCGCGTTGTAATAAATAGCTGT
2175	literature	Hs.2243	NM_001715	4502412	B lymphoid tyrosine kinase (BLK), mRNA /cds=(222,1739)	1	CCTAGGCTGCGCTCCAGCACTGCGG GGCTTTTCTGCAATAAAGTCACGAG
2176	literature	Hs.113916	NM_001716	14589867	Burkitt lymphoma receptor 1, GTP-binding protein (BLR1), transcript variant 2, mRNA /cds=(288,1271)	1	GGCAGCACAGAGACCCCGGAACAA GCCTAAAAATTGTTCAAAATAAAA
2177	Table 3A	Hs.77054	NM_001731	4502472	B-cell translocation gene 1, anti-proliferative (BTG1), mRNA /cds=(308,823)	1	AAGTCTTTCCACAACCACCATCTAT TTTGTGAACCTTTGTAGTCATCT
2178	db mining	Hs.263812	NM_001736	4502508	nuclear distribution gene C (A.nidulans) homolog (NUDC), mRNA /cds=(90,1085)	1	TGGCAAGTTGGAAATATGTAAGTGG AATCTCAAAAGTTCTTTGGGACAA
2179	Table 3A	Hs.182278	NM_001743	4502548	Homo sapiens, calmodulin 2 (phosphorylase kinase, delta), clone MGC:1447 IMAGE:3504793, mRNA, complete cds /cds=(93,542)	1	TCTGCTTATGGCACAAATTTGCCTCAA ATCCATTCAAAGTTGTATATTTGT
2180	Table 3A	Hs.155560	NM_001746	10716562	calnexin (CANX), mRNA /cds=(89,1867)	1	CCATTGTTGTCAAATGCCAGTGTCC ATCAGATGTGTTCTCTCCATTTTCT
2181	Table 3A	Hs.76288	NM_001748	12408645	calpain 2, (mII) large subunit (CAPN2), mRNA /cds=(142,2244)	1	GCTGCCTCTGTAATTCATGTATTCA AAGGAAAAGACACCTTGCCATATA
2182	Table 3A	Hs.279607	NM_001750	5729759	calpastatin (CAST), mRNA /cds=(66,1358)	1	TCAAGTCAGCAACAGAGCAAAATAAA GGTTAGATAAGTCTTGTGTAGCA
2183	Table 3A	Hs.179881	NM_001755	13124872	core-binding factor, beta subunit (CBFB), transcript variant 2, mRNA /cds=(11,559)	1	CTTGCCCTTAAGCTACCAGATTGCTTT TGCCACCATTGGCCACTACTGTGTG
2184	Table 3A	Hs.75588	NM_001759	4502618	cyclin D2 (CCND2), mRNA /cds=(269,1138)	1	TGGTTTTGAATGCAATTAGGTTATGC TATTTGGACAATAAATCACTTGT
2185	Table 3A	Hs.83173	NM_001760	4502618	cyclin D3 (CCND3), mRNA /cds=(165,1043)	1	TGCAAGGTTTAGGCTGGTGGCCAG GACCATCATCCTACTGTAATAAAGA
2186	Table 3A	Hs.1973	NM_001761	4502620	cyclin F (CCNF), mRNA /cds=(43,2403)	1	GTGTGGTCGGGGTGAGAACCCAGC GTTGGAACGTAGACCCGCTCTGTC

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2187	literature	Hs.343474	NM_001762	4502642	601885687F1 cDNA, 5' end /clone=IMAGE:4104184 /clone_end=5'	1	AGCAGCAGTGACATAAAATTCATGT TAGATAAGCATATGTCTTACCT
2188	Table 3A	Hs.66052	NM_001775	4502654	CD38 antigen (p45) (CD38), mRNA /cds=(69,971)	1	CTCCACAATAAGGTCAATGCCAGAGA CGGAAGCCTTTTCCCAAAGTCT
2189	literature	Hs.205353	NM_001776	4502666	ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1), mRNA /cds=(67,1599)	1	TGGAGGTATTCAATATCTTTGCCTC AAGGACTTCGCGAGATCTGTCTC
2190	Table 3A	Hs.901	NM_001778	4502674	CD48 antigen (B-cell membrane protein) (CD48), mRNA /cds=(36,767)	1	GGTGCCCAACATTCTTGGCCTGTTC TTACCTGAGATGAGCTCTTTTAAC
2191	Table 3A	Hs.287995	NM_001779	4502676	cDNA: FLJ23181 fis, clone LNG11094 /cds=UNKNOWN	1	TTAAGAAGAAATACCCACTAACAAAG AACAAGCATTAGTTTGGCTGTCA
2192	Table 3A	Hs.82401	NM_001781	4502680	CD69 antigen (p60, early T-cell activation antigen) (CD69), mRNA /cds=(81,680)	1	GCAAGACATAGAATAGTGTGGAAAA TGTGAATATGTGATGTGGCAAAT
2193	Table 3A	Hs.116481	NM_001782	4502682	CD72 antigen (CD72), mRNA /cds=(108,1187)	1	GGGCGGCCCGAGCCAGCCAGGCA GTTTTATTGAAATCTTTTAAATAAT
2194	Table 3A	Hs.79630	NM_001783	4502684	CD79A antigen (immunoglobulin- associated alpha) (CD79A), transcript variant 1, mRNA /cds=(36,716)	1	CTGATTGTAGCAGCCTCGTATGTGTC ACCCCTCTCCCTGATCTGTGAG
2195	literature	Hs.184298	NM_001799	4502742	cyclin-dependent kinase 7 (homolog of Xenopus MO15 cdk-activating kinase) (CDK7), mRNA /cds=(34,1074)	1	AGAGAACACTGGACAACATTTTACTA CTGAGGGAAATAGCCAAAAAGGCA
2196	Table 3A	Hs.276770	NM_001803	4502760	CDW52 antigen (CAMPATH-1 antigen) (CDW52), mRNA /cds=(24,209)	1	CATGGGGGCAACAGCCAAATAGGG GGGTAATGATGTAGGGGCCAAGCAG
2197	Table 3A	Hs.10029	NM_001814	4503140	cathepsin C (CTSC), mRNA /cds=(33,1424)	1	TTCTGGAAGATGGTCAGCTATGAAGT AATAGAGTTTGCTTAATCATTTGT
2198	literature	Hs.41	NM_001816	4502794	carcinoembryonic antigen-related cell adhesion molecule 8 (CEACAM8), mRNA /cds=(32,1081)	1	GGGTGGCTCTGATATAGTACTCTGG TGTAATTCTGCATTTCAAGAAGA
2199	Table 3A	Hs.83758	NM_001827	4502858	CDC28 protein kinase 2 (CKS2), mRNA /cds=(95,334)	1	TTCCAGTCAGTTTTTCTCTTAAGTGCC TGTTTGAGTTTACTGAAACAGTT
2200	literature	Hs.158324	NM_001837	4502638	chemokine (C-C motif) receptor 3 (CCR3), mRNA /cds=(31,1098)	1	AAGGACCAAGGAGATGAAGCAAACA CATTAAGCCTTCCACACTCACCTCT
2201	Table 3A	Hs.3462	NM_001867	4502992	cytochrome c oxidase subunit VIc (COX7C), mRNA /cds=(18,209)	1	AGGTGCAGCCTCTGGAAGTGATCA AACTAGAACTCATATGCCACTACTAG
2202	Table 3A	Hs.75360	NM_001873	4503008	carboxypeptidase E (CPE), mRNA /cds=(290,1720)	1	ACTTAAAGTTTAAAGGTTTCTCTTGG TTGTAGAGTGGCCAGAATTGCA
2203	Table 3A	Hs.1940	NM_001885	4503058	crystallin, alpha B (CRYAB), mRNA /cds=(25,552)	1	GTCTTGACTAGTGCTGAAGCTTAT TAATGCTAAGGGCAGGCCAAAT
2204	Table 3A	Hs.19904	NM_001902	4503124	cystathionase (cystathionine gamma- lyase) (CTH), mRNA /cds=(33,1250)	1	CCAGAGCTGCTATTAGAACTGCTTC CTGTGAAGATCAATCTTCTGAGT
2205	literature	Hs.178452	NM_001903	4503126	catenin (cadherin-associated protein), alpha 1 (102kD) (CTNNA1), mRNA /cds=(4,2727)	1	TCCTCTTCTCCACAGTTCAAATGCA CAATTCATCATTGGGCTCACTTCT
2206	Table 3A	Hs.297939	NM_001908	4503138	cathepsin B (CTSB), mRNA /cds=(177,1196)	1	CAGCTTACCCTGTCAAGTTAAACAAG GAATGCCTGTGCCAATAAAGGTT
2207	Table 3A	Hs.78056	NM_001912	4503154	cathepsin L (CTSL), mRNA /cds=(288,1289)	1	CTCGAATCATTGAAGATCCGAGTGTG ATTTGAATTCTGTGATATTTTAC
2208	literature	Hs.289271	NM_001916	4503184	cytochrome c-1 (CYC1), mRNA /cds=(8,985)	1	CTTCATCTGGAAGAAGAGGCAAGGG GGCAGGAGACCAGGCTCTAGCTCTG
2209	Table 3A	Hs.77494	NM_001929	4503318	deoxyguanosine kinase (DGUOK), mRNA /cds=(11,793)	1	AGACTTTGCCATTGTGCGATTGTTTT CTTTGTACCTGAAGCATTTTGA
2210	db mining	Hs.334626	NM_032332	14150113	hypothetical protein MGC4238 (MGC4238), mRNA /cds=(30,977)	1	AAAAGTAGGGGAGGGGCTGGGCTCG CAAATTAATAATAGAAGAGGGGGT
2211	Table 3A	Hs.180383	NM_001946	4503418	dual specificity phosphatase 6 (DUSP6), transcript variant 1, mRNA /cds=(351,1496)	1	GTCGCAAGGGGATAATCTGGGAAA GACACCAATCATGGGCTCACTTTA
2212	Table 3A	Hs.82113	NM_001948	4503422	dUTP pyrophosphatase (DUT), mRNA /cds=(29,523)	1	TCAGTAACAAATCTTTCACAAGGTA CAAAATCTTGCAATAGCTGAAC
2213	Table 3A	Hs.42287	NM_001952	12669917	E2F transcription factor 6 (E2F6), mRNA /cds=(0,845)	1	GTTTTACTTAGGACAAGTTGTACCTT GCCCTCTCTCCAGCTCTGCTCCCA
2214	literature	Hs.2271	NM_001955	4503460	endothelin 1 (EDN1), mRNA /cds=(336,974)	1	ACTGGCTTCCATCAGTGGTAACTGCT TTGGTCTCTCTTTCATCTGGGGA
2215	Table 3A	Hs.275859	NM_001959	4503476	eukaryotic translation elongation factor 1 beta 2 (EEF1B2), mRNA /cds=(235,912)	1	TGGATGTGGCTGCTTTCAACAAGATC TAAATCCATCCTGGATCATGGCA
2216	Table 3A	Hs.326035	NM_001964	4503492	early growth response 1 (EGR1), mRNA /cds=(270,1901)	1	TGTGGTGTATATCCTTCCAAAAAATTA AAACGAAAATAAAGTAGCTGCGA
2217	Table 3A	Hs.79308	NM_001968	4503534	eukaryotic translation initiation factor 4E (EIF4E), mRNA /cds=(18,671)	1	GTCTTCCATGTGAACAGCATAAGTTT GGAGCACTAGTTTGATTATATGT
2218	literature	Hs.99863	NM_001972	4503548	elastase 2, neutrophil (ELA2), mRNA /cds=(38,841)	1	GCCACACCCACACTTCCAGCATCT GGCACAATAAACATTCTCTGTTTT
2219	db mining	Hs.211956	NM_012099	6912245	CD3-epsilon-associated protein; antisense to ERCC-1 (ASE-1), mRNA /cds=(488,2020)	1	AGCTGTTTCTGGGTAATCTAGAGT GGGGTTTGGTTCTTATTTTCCC
2220	Table 3A	Hs.62192	NM_001993	10518499	coagulation factor III (thromboplastin, tissue factor) (F3), mRNA /cds=(123,1010)	1	GCAGGAGACATTGGTATTCTGGGCA GCTTCTAATATGCTTTACAATCTG

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2221	Table 3A	Hs.278333	NM_001995	4503650	fatty-acid-Coenzyme A ligase, long-chain 1 (FACL1), nuclear gene encoding mitochondrial protein, mRNA /cds=(73,2172)	1	TGGTTTTTCATATCAAAAGATCATGTTG GGATTAACTTGCCTTTTCCCA
2222	Table 3A	Hs.77393	NM_002004	4503684	farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase) (FDPS), mRNA /cds=(114,1373)	1	ATCTACAAGCGGAGAAAGTGACCTAG AGATTGCAAGGGCGGGGAGAGGAG
2223	Table 3A	Hs.170133	NM_002015	9257221	forkhead box O1A (rhabdomyosarcoma) (FOXO1A), mRNA /cds=(385,2352)	1	TGTTAAATGGCTTGGTGCTTTCTTT TCTAATTATGCAGAATAAGCTCT
2224	Table 3A	Hs.89764	NM_002024	4503764	fragile X mental retardation 1 (FMR1), mRNA /cds=(219,2117)	1	AAAAGTGTACTTTGATTCACATGTTTT CAAAATGGAGTTGGAGTTCATTCA
2225	Table 3A	Hs.138381	NM_002027	4503770	farnesyltransferase, CAAX box, alpha (FNTA), mRNA /cds=(6,1145)	1	TCCATCAGAGCTGGTCTGCACACTCA CATTATCTGTGCTACTGTAAACC
2226	Table 3A	Hs.753	NM_002029	4503778	formyl peptide receptor 1 (FPR1), mRNA /cds=(81,1113)	1	GACACTTTCGAGCTCCAGCTCCAGC TTCGTCTCACCTTGAGTTAGGCTG
2227	Table 3A	Hs.62954	NM_002032	4503794	ferritin, heavy polypeptide 1 (FTH1), mRNA /cds=(91,663)	1	TGTTGGGGTTTCTTTTACCTTTCTAT AAGTTGTACCAAAACATCCACTT
2228	Table 3A	Hs.278238	NM_002041	8051598	GA-binding protein transcription factor, beta subunit 2 (47kD) (GABPB2), transcript variant gamma, mRNA /cds=(169,1251)	1	AGGAGTCTTTTACCCGGTGTGCTTTG CCGCAGTCATCCAAAATAAATCA
2229	Table 3A	Hs.169476	NM_002046	7669491	Homo sapiens, glyceraldehyde-3-phosphate dehydrogenase, clone MGC:10926 IMAGE:3628129, mRNA, complete cds /cds=(2306,3313)	1	TAGGGAGCGCACCTTGTATGTACC ATCAATAAAGTACCCTGTGCTCAA
2230	db mining	Hs.334695	NM_002050	4503926	GATA-binding protein 2 (GATA2), mRNA /cds=(193,1617)	1	GCTGTATATAACGTTGCCGAGCTT AGATTCTGTATGCCGTGACGGCGG
2231	Table 3A	Hs.62661	NM_002053	4503938	guanylate binding protein 1, interferon-inducible, 67kD (GBP1), mRNA /cds=(68,1846)	1	TGTCTTATGTGTCAAAAGTCTAGGA AAGTGGTTGATGTTCTTATAGCA
2232	Table 3A	Hs.1674	NM_002056	4503980	glutamine-fructose-6-phosphate transaminase 1 (GFPT1), mRNA /cds=(122,2167)	1	GCTGAATGACATATTTTATCTGTTCT TTAAATCACAACACAGAGCTGC
2233	Table 3A	Hs.296261	NM_002072	4504044	guanine nucleotide binding protein (G protein), q polypeptide (GNAQ), mRNA /cds=(220,1299)	1	TGTCTCTCTCTTTTCTTTTCTATG GAGCAAAACAAAGCTGATTTCCC
2234	Table 3A	Hs.215595	NM_002074	11321584	guanine nucleotide binding protein (G protein), beta polypeptide 1 (GNB1), mRNA /cds=(280,1302)	1	CAGTGTACTGCAAGGAAGCTGGATG CAAGATAGATACTATATAAAGTGT
2235	Table 3A	Hs.183773	NM_002078	6715599	golgi autoantigen, golgin subfamily a, 4 (GOLGA4), mRNA /cds=(285,6977)	1	TGTATTGTATGCAAACTGTGATTGTT GGCAGTGTCTCTCTGAGAAACA
2236	Table 3A	Hs.180577	NM_002087	4504150	granulin (GRN), mRNA /cds=(62,1843)	1	GGGGTGTGTGTGTGTGCGCGTGT GCGTTTCAATAAAGTTGTACACTT
2237	Table 3A	Hs.2707	NM_002094	4504168	G1 to S phase transition 1 (GSPT1), mRNA /cds=(648,2147)	1	TTTAGTATTTTCCCCAGGCCAGAT CATTGCTGAGTGTGCGAGTGTGTG
2238	Table 3A	Hs.75113	NM_002097	4753158	general transcription factor IIIA (GTF3A), mRNA /cds=(19,1290)	1	TGCTTTGTTTAAAGGACTGCAGACCA AGGAGTCGAGCTTCTCTCAGAGC
2239	Table 3A	Hs.119192	NM_002106	4504254	H2A histone family, member Z (H2AFZ), mRNA /cds=(106,492)	1	ACCTTATTTCCACTCTGGTGGATAAG TTCAATAAAGGTCATATCCCAAC
2240	Table 3A	Hs.181307	NM_002107	4504278	H3 histone, family 3A (H3F3A), mRNA /cds=(374,784)	1	AATGTTGTCTGTCTTCTGTCTGTTT CTGTAAGTTTGCTATTAATAATACA
2241	Table 3A	Hs.263435	NM_002108	4809282	histidine ammonia-lyase (HAL), mRNA /cds=(297,2270)	1	ACCTTCTCTATTTCACAGATAAGGAA TCTTTGGGGATTAACCACTCTCT
2242	literature	Hs.77798	NM_002109	6996013	histidyl-tRNA synthetase (HARS), mRNA /cds=(455,1984)	1	AGATACCTCCCCACCACCAATTGCCA AAGGTCCAATAAATGCTCTCAAC
2243	Table 3A	Hs.89555	NM_002110	4504356	hemopoietic cell kinase (HCK), mRNA /cds=(168,1685)	1	GCAATCCACAATCTGACATTCTCAGG AAGCCCCCAAGTTGATATTTCTAT
2244	db mining	Hs.277477	NM_002117	11321588	major histocompatibility complex, class I, C (HLA-C), mRNA /cds=(0,1100)	1	TCTCAGGCTGCGTGACGCAACAGTG CCGAGGGCTCTGATGAGTCTCTCAT
2245	Table 3A	Hs.814	NM_002121	4504404	major histocompatibility complex, class II, DP beta 1 (HLA-DPB1), mRNA /cds=(19,795)	1	GCCTCCAACCATGTTCCCTTCTTCTT AGCACCACAAATAATCAAAACCCA
2246	Table 3A	Hs.308028	NM_002125	4504412	major histocompatibility complex, class II, DR beta 5 (HLA-DRB5), mRNA /cds=(29,829)	1	CTCATCTTCAACTTTTGTGCTCCCTT TGCCTAAACCTATGGCTCCTG
2247	Table 3A	Hs.324278	NM_002128	4504424	mRNA; cDNA DKFZp566M063 (from clone DKFZp566M063) /cds=UNKNOWN	1	TGGGGGTTGTAAATTGGCATGGAAT TTAAAGCAGGTTCTTGTGTGTGCA
2248	Table 3A	Hs.80684	NM_002129	14141173	high-mobility group (nonhistone chromosomal) protein 2 (HMG2), mRNA /cds=(190,819)	1	TGTGTGTATGGTAGCACAGAAACTT GTAGGAATTAGTATCAATAGTAA
2249	Table 3A	Hs.1119	NM_002135	4504440	nuclear receptor subfamily 4, group A, member 1 (NR4A1), mRNA /cds=(110,1906)	1	CCTGCCTGGCTCTCTCTTCTACCCT CCTTCCACATGTACATAAAGTGTG
2250	Table 3A	Hs.249495	NM_002136	4504444	heterogeneous nuclear ribonucleoprotein A1 (HNRPA1), transcript variant 2, mRNA /cds=(104,1222)	1	AGATGGGAATGAAGCTTGTGTATCCA TTATCATGTGTAATCAATAAACGA

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2251	Table 3A	Hs.232400	NM_002137	14043073	heterogeneous nuclear ribonucleoprotein A2/B1 (HNRPA2B1), transcript variant B1, mRNA /cds=(169,1230)	1	TTAAGATTTTCTCAAAGTTTGA AAA GCTATTAGCCAGGATCATGGTGT
2252	Table 3A	Hs.303627	NM_002138	14110413	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA-binding protein 1, 37kD) (HNRPD), transcript variant 1, mRNA /cds=(285,1352)	1	TGCGGCTAGTTCAGAGAGATTTTAG AGCTGTGGTGGACTTCATAGATGA
2253	Table 3A	Hs.146381	NM_002139	4504450	RNA binding motif protein, X chromosome (RBMX), mRNA /cds=(11,1186)	1	CCATTTTGCCCTTCTGACATTTCCCTG GGAATCTGCAAGAACCTCCCTT
2254	Table 3A	Hs.2733	NM_002145	4504464	homeo box B2 (HOXB2), mRNA /cds=(78,1148)	1	TTCCGTTTGGTAGACTCCTTCCAATG AAATCTCAGGAATAATTAACCTCT
2255	Table 3A	Hs.3268	NM_002155	4504514	heat shock 70kD protein 6 (HSP70B) (HSPA6), mRNA /cds=(0,1931)	1	GGCAGAGAAGGAGGAGTATGAGCAT CAGAAGAGGGAGCTGGAGCAAATCT
2256	Table 3A	Hs.79037	NM_002156	4504520	Homo sapiens, heat shock 60kD protein 1 (chaperonin), clone MGC:19755 IMAGE:3630225, mRNA, complete cds /cds=(1705,3398)	1	AGCAGCCTTCTGTGGAGAGTGAGAA TAATTGTGTACAAAGTAGAGAAGT
2257	Table 3A	Hs.1197	NM_002157	4504522	heat shock 10kD protein 1 (chaperonin 10) (HSP1), mRNA /cds=(41,349)	1	AATGATAACTAATGACATCCAGTGTC TCCAAATTTGTTCCCTGTACTGA
2258	db mining	Hs.93177	NM_002176	4504602	interferon, beta 1, fibroblast (IFNB1), mRNA /cds=(0,563)	1	TCCCTCTGGGACTGGACAATTGCTTC AAGCATTCTTCAACCAGCAGATGC
2259	Table 3A	Hs.82085	NM_002184	4504674	interleukin 6 signal transducer (gp130, oncostatin M receptor) (IL6ST), mRNA /cds=(255,3011)	1	CGGCTACATGCTCAGTGAAGGACTA GTAGTTCCTGCTACAACTTCAGCA
2260	Table 3A	Hs.237868	NM_002185	4504678	interleukin 7 receptor (IL7R), mRNA /cds=(22,1401)	1	CATGAGTCAAGAGCATCCTGCTTCTA CCATGTGGATTTGGTCACAAGGTT
2261	db mining	Hs.1702	NM_002186	4504684	interleukin 9 receptor precursor (IL9R) gene, complete cds /cds=(214,1779)	1	GTCAGAGGTCCTGTCTGGATGGAGG CTGGAGGCTCCCCCTCAACCCCTC
2262	db mining	Hs.674	NM_002187	4504640	interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) (IL12B), mRNA /cds=(13,699)	1	CCTGATACACAATTATGACCAGAAAA TATGGCTCCATGAAGGTGCTACTT
2263	Table 3A	Hs.41724	NM_002190	4504650	interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8) (IL17), mRNA /cds=(53,520)	1	ATTCAATTCAGAGTAGTTTCAAGTTT CACATCGTAACCATTTTCGCCCG
2264	Table 3A	Hs.80645	NM_002198	4504720	interferon regulatory factor 1 (IRF1), mRNA /cds=(197,1174)	1	TGGAATGTCTCATCTAACCATTAAAGTC ATGTGTGAACACATAAGGACGTGT
2265	Table 3A	Hs.83795	NM_002199	4755144	interferon regulatory factor 2 (IRF2), mRNA /cds=(177,1226)	1	AATTCAGAGATTTGAAGACAAAATA CTCTAATTTCAACAGAGCAAGCT
2266	Table 3A	Hs.334450	NM_002200	4504726	interferon regulatory factor 5 (IRF5), transcript variant 1, mRNA /cds=(102,1616)	1	TGGCAGCTACCCCTTCTTGAGAGTCA CAAGAACCTGGAGCAGAAATTAAT
2267	Table 3A	Hs.241545	NM_002208	6007850	Homo sapiens, Similar to hypothetical protein, clone MGC:1824 IMAGE:3509518, mRNA, complete cds /cds=(533,1504)	1	TTCTTCAGGATGATCTAGAGCAGCA TGGAGCTGTTGGTAGAATATTAGT
2268	Table 3A	Hs.174103	NM_002209	4504756	Integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL), mRNA /cds=(88,3600)	1	TGCCAAGCACAGTGCCTGCATGTATT TATCCAATAAATGTGAAATTTCTGT
2269	Table 3A	Hs.287797	NM_002211	4504766	mRNA for FLJ00043 protein, partial cds /cds=(0,4248)	1	ACCACTGTATGTTTACTTCTCACCATT TGAGTTGCCCATCTGTTTTCACA
2270	Table 3A	Hs.5215	NM_002212	4504770	Integrin beta 4 binding protein (ITGB4BP), mRNA /cds=(70,807)	1	GGCTGAGGGTCTGCTGTCCTGTGC CACCCCATTAAGTGACAGTTCCTCC
2271	Table 3A	Hs.50651	NM_002227	4504802	Janus kinase 1 (a protein tyrosine kinase) (JAK1), mRNA /cds=(75,3503)	1	ACCATCCAATCGGACAGCTTTCAGA ACCTTATTGAAGGATTTGAAGCAC
2272	Table 3A	Hs.198951	NM_002229	4504808	jun B proto-oncogene (JUNB)	1	AGTCTCTAAAGAGTTTATTTAAGACG TGTTTGTGTTTGTGTGTTTGT
2273	Table 3A	Hs.3886	NM_002267	4504898	karyopherin alpha 3 (importin alpha 4) (KPNA3), mRNA /cds=(91,1656)	1	TGGAAGACTAAAGAGGTGCAATGTGA TCTGAGCCTCCATCATTGCTCTCC
2274	Table 3A	Hs.74011	NM_002286	11693297	lymphocyte-activation gene 3 (LAG3), mRNA /cds=(349,1938)	1	GCAGCCAGCAGATCTCAGCAGCCCA GTCCAAATAAACGTCCTGTCTAGCA
2275	Table 3A	Hs.334822	NM_002295	9845501	Homo sapiens, Similar to ribosomal protein L4, clone MGC:2966 IMAGE:3139805, mRNA, complete cds /cds=(1616,2617)	1	GGTAGGAGCAACCACTGACTGGTCTT AAGCTGTTCTGCATAGGCTCTTA
2276	Table 3A	Hs.152931	NM_002296	4504960	lamin B receptor (LBR), mRNA /cds=(75,1922)	1	TCAGCTACACTTGTGTTTTAAGTTTGT TTTTGACATGTTTATTGGCAAA
2277	Table 3A	Hs.76506	NM_002298	7382490	lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA /cds=(173,2056)	1	TCCCCCTCCGCTCCAGGAAGAA AGAATGTTACTGCCTAATAAAAAA

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2278	Table 3A	Hs.234489	NM_002300	4557031	Homo sapiens; lactate dehydrogenase B, clone MGC:3600 IMAGE:3028947, mRNA, complete cds /cds=(1745,2749)	1	GTGAATTTGGGCTCACAGAATCAAAG CCTATGCTTGGTAGCTCTTGAACA
2279	Table 3A	Hs.2250	NM_002309	6006018	leukemia inhibitory factor (cholinergic differentiation factor) (LIF), mRNA /cds=(64,672)	1	TCCTTCTTTCCACTGAAAAGCACAT GGCCTTGGGTGACAAATTCCTCTT
2280	Table 3A	Hs.2798	NM_002310	6042197	leukemia inhibitory factor receptor (LIFR), mRNA /cds=(153,3446)	1	AGAAATGTTTCAGTAATGAAAAATATA TCCAATCAGAGCCATCCCGAAA
2281	literature	Hs.166091	NM_002312	4504996	ligase IV, DNA, ATP-dependent (LIG4), mRNA /cds=(474,3008)	1	TTTAACTTTTAAAGTTGAAAAGACAA TAGCCCAAAGCCAAGAAAGAAAA
2282	Table 3A	Hs.158203	NM_002313	6006043	actin binding LIM protein 1 (ABLIM), transcript variant ABLIM-I, mRNA /cds=(99,2435)	1	GCACCTCTTTGTCAATACTCTGCAT CACTGTCACTACTCACAACCTCGTG
2283	Table 3A	Hs.890	NM_002341	4505034	lymphotoxin beta (TNF superfamily, member 3) (LTB), transcript variant 1, mRNA /cds=(8,742)	1	TGGCAGTGGGAAAAATGTAGGAGAC TGTTTGGAAATTGATTTTGAACCTG
2284	literature	Hs.1116	NM_002342	4505038	lymphotoxin beta receptor (TNFR superfamily, member 3) (LTBR), mRNA /cds=(168,1475)	1	CATGCAATAAAAAAGATGGGACCTA AACTCGTGCCGCTCGTGCCGAATT
2285	Table 3A	Hs.105938	NM_002343	4505042	lactotransferrin (LTF), mRNA /cds=(294,2429)	1	GGATTGCCCATCCATCTGCTTACAAT TCCTGCTGTCGCTCTAGCAAGAA
2286	Table 3A	Hs.210	NM_002344	4505044	leukocyte tyrosine kinase (LTK), mRNA /cds=(170,2581)	1	GAGCACTGGATTGCTTCCCATATTG AGCGTCCTTCATCTGGGCAGACCC
2287	Table 3A	Hs.80887	NM_002350	4505054	v-src-1 Yamaguchi sarcoma viral related oncogene homolog (LYN), mRNA /cds=(297,1835)	1	AACCGATATATACATGACATGACAT TTCTTTGTGCTTTGGCTTACTTGT
2288	Table 3A	Hs.75709	NM_002355	10947032	mannose-6-phosphate receptor (cation dependent) (M6PR), mRNA /cds=(170,1003)	1	ATTTGTTTGCATCCCTCCCCACACC CTGGTGTTTAAAAATGAAGAAAAA
2289	Table 3A	Hs.330716	NM_002356	11125771	cDNA FLJ14368 fis, clone HEMBA1001122 /cds=UNKNOWN	1	AAACTCCTGCTTAAAGTGTTCTAATTT TCTGTGAGCACACTAAAAGCGAA
2290	Table 3A	Hs.69547	NM_002385	4505122	myelin basic protein (MBP), mRNA /cds=(10,570)	1	GACATGCCGGCTGGGCAGCTGTTAG AGTCCAACGTGGGGCAGCAGAGAGA
2291	Table 3A	Hs.172195	NM_002408	6031183	mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase (MGAT2), mRNA /cds=(489,1832)	1	ACCAAAATTCAGTGAAGGCATTCTAC AAGTTTGAAGTTAGCATTACATTT
2292	literature	Hs.1384	NM_002412	4505176	O-6-methylguanine-DNA methyltransferase (MGMT), mRNA /cds=(40,663)	1	TAACACTGCATCGGATGCGGGGCGT GGAGGCACCGCTGATTAAAGGAAG
2293	Table 3A	Hs.177543	NM_002414	4505182	antigen identified by monoclonal antibodies 12E7, F21 and O13 (MIC2), mRNA /cds=(123,680)	1	TCCATCGAGCAGCTGTGAAACCCCTG GTAGCCCCGACTTCTTTTAATTA
2294	db mining	Hs.83169	NM_002421	13027798	matrix metalloproteinase 1 (interstitial collagenase) (MMP1), mRNA /cds=(71,1480)	1	CAGTCACTGGTGTCACCTGGATAG GCAAGGGATAACTCTTCTAACACAA
2295	db mining	Hs.83326	NM_002422	13027803	matrix metalloproteinase 3 (stromelysin 1, progelatinase) (MMP3), mRNA /cds=(63,1496)	1	GGGAAGCACTCGTGTGCAACAGACA AGTGACTGTATCTGTGTAGACTATT
2296	db mining	Hs.2256	NM_002423	13027804	matrix metalloproteinase 7 (matrilysin, uterine) (MMP7), mRNA /cds=(47,850)	1	TCTATGAGCTTTGTGAGTGGCGGTAG ATGTCAATAAATGTTACATACACA
2297	db mining	Hs.73862	NM_002424	4505220	matrix metalloproteinase 8 (neutrophil collagenase) (MMP8), mRNA /cds=(71,1474)	1	ATATGGTGCTGTTTCTACCCTTGGAA AAGAAATGTAGATGATGTTTTCG
2298	db mining	Hs.2258	NM_002425	4505204	matrix metalloproteinase 10 (stromelysin 2) (MMP10), mRNA /cds=(22,1452)	1	TTGCTAGGCGAGATAGGGGGAAGAC AGATATGGGTGTTTTTAATAATCT
2299	db mining	Hs.1695	NM_002426	4505206	matrix metalloproteinase 12 (macrophage elastase) (MMP12), mRNA /cds=(12,1424)	1	AAGTTGCTTCCTAACATCCTTGGACT GAGAAATTATACTTACTTCTGGCA
2300	db mining	Hs.2936	NM_002427	13027796	matrix metalloproteinase 13 (collagenase 3) (MMP13), mRNA /cds=(28,1443)	1	CTCAGGCAAGAAATGAAATGCATA TTTGCAAAGTGATTAGGAAGTGT
2301	literature	Hs.82380	NM_002431	4505224	menage a trois 1 (CAK assembly factor) (MNAT1), mRNA /cds=(34,963)	1	TGGAAGAGAGGAATAAATAATTCACC TATATGTTTGTAGGTTGTGACAG
2302	literature	Hs.79396	NM_002434	4505232	N-methylpurine-DNA glycosylase (MPG), mRNA /cds=(146,1042)	1	GCCTGAGCAAAGGGCCTGCCAGAC AAGATTTTTTAATGTTTAAAAACC
2303	Table 3A	Hs.1861	NM_002436	6006024	membrane protein, palmitoylated 1 (55kD) (MPP1), mRNA /cds=(115,1515)	1	AAATGACACATCTGTGCAATGAATG ATGTCTGCTCTAGGGAACCTTCA
2304	literature	Hs.42674	NM_002439	4505248	mutS (E. coli) homolog 3 (MSH3), mRNA /cds=(16,3402)	1	ATATTTTTATTTGTTTCAGTTCAGATA ATTGGCACTGGGTGAATCTGGC
2305	literature	Hs.115246	NM_002440	4505250	mutS (E. coli) homolog 4 (MSH4), mRNA /cds=(41,2851)	1	TTCCAGGACCGAACAAGTTCAGAA AAGACTGAAGAATAATCACAATTC
2306	literature	Hs.112193	NM_002441	4505252	mRNA for G7 protein (G7 gene located in the class III region of the major histocompatibility complex /cds=(56,2611)	1	TTCTTATCTCCCTCAGACGCAGAGT TTTAGTTTCTAGAAATTTTGT

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2307	Table 3A	Hs.288742	NM_002444	4505256	cDNA: FLJ22712 fis, clone HSI13435 /cds=UNKNOWN	1	TTTTGGAGGGGTTTATGCTCAATCCA TGTTCTATTTCAGTGCCAAATAAAA
2308	literature	Hs.388	NM_002452	4505274	nudix (nucleoside diphosphate linked moiety X)-type motif 1 (NUDT1), mRNA /cds=(26,496)	1	CATTGAGTGGCGCAGAGCCGGGTTT CATCTGGAATTAACATGGATGGAAGG
2309	Table 3A	Hs.82132	NM_002460	4505286	interferon regulatory factor 4 (IRF4), mRNA /cds=(105,1460)	1	TGGAATTCCTCGTGTGCTTCAAACCT GAGACAGATGGGACTTAACAGGCA
2310	Table 3A	Hs.82132	NM_002460	4505286	interferon regulatory factor 4 (IRF4), mRNA /cds=(105,1460)	1	TGGAATTCCTCGTGTGCTTCAAACCT GAGACAGATGGGACTTAACAGGCA
2311	Table 3A	Hs.76391	NM_002462	4505290	myxovirus (influenza) resistance 1, homolog of murine (interferon-inducible protein p78) (MX1), mRNA /cds=(345,2333)	1	CGTCCTGCGGAGCCCTGTCTCTCTCT CTCTGTAATAAACTCATTTCTAGCC
2312	Table 3A	Hs.926	NM_002463	11342683	myxovirus (influenza) resistance 2, homolog of murine (MX2), mRNA /cds=(104,2251)	1	TTTCCCTGATTATGATGAGCTTCCATT GTTCTGTTAAGTCTTTGAAGAGGA
2313	Table 3A	Hs.79070	NM_002467	12962934	v-myc avian myelocytomatosis viral oncogene homolog (MYC), mRNA /cds=(558,1877)	1	CAAATGCAACCTCACACCTTGGCTG AGTCTTGAGACTGAAAGATTTAGC
2314	Table 3A	Hs.243886	NM_002482	4505332	nuclear autoantigenic sperm protein (histone-binding) (NASP), mRNA /cds=(85,2448)	1	GGGACACTGGAGGCTGGAGCTACAG TTGAAAGCACTGCATGTTAAGAGGG
2315	Table 3A	Hs.25812	NM_002485	6996019	Nijmegen breakage syndrome 1 (nibrin) (NBS1), mRNA /cds=(52,2316)	1	TCTGTCATGCCCAACATCCCTTTCTA AGGAAGACTGCCCTACTATAGCAG
2316	Table 3A	Hs.19236	NM_002492	4505362	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5 (16kD, SGD1) (NDUFB5), mRNA /cds=(6,575)	1	GGAGAAATAGGAATTTGTGAACCCCT AAAATTGTAGCAACTTTGAAAGGT
2317	Table 3A	Hs.10758	NM_002495	4505368	NADH dehydrogenase (ubiquinone) Fe-S protein 4 (18kD) (NADH-coenzyme Q reductase) (NDUFS4), mRNA /cds=(8,535)	1	ACAAGAGTATCCACAAAATAGGTTGG CACTGACTATATCTCTGCTTGACT
2318	literature	Hs.1827	NM_002507	4505392	nerve growth factor receptor (TNFR superfamily, member 16) (NGFR), mRNA /cds=(113,1396)	1	GCCCTCTGAAACTTACACACAAAAC GTTAAGTGATGAACATTAATAGC
2319	Table 3A	Hs.82226	NM_002510	4505404	glycoprotein (transmembrane) nmb (GNMB), mRNA /cds=(91,1773)	1	AAACCATCTACTATATGTTAGACATGA CATTTCTTTTCTCTCCTTCTCTGA
2320	Table 3A	Hs.214	NM_002515	4505424	neuro-oncological ventral antigen 1 (NOVA1), transcript variant 1, mRNA /cds=(60,1592)	1	GTGTATCTCGTGAATCAGTGTTAG CATTGCCGCTATTATATTACTCA
2321	Table 3A	Hs.89385	NM_002519	4505430	nuclear protein, ataxia-telangiectasia locus (NPAT), mRNA /cds=(34,4317)	1	TTGTGATGTTAAGAAATTTGTATGGT GTGGCAGTGGTCTATTCTTAAGGA
2322	Table 3A	Hs.9614	NM_002520	10835062	nucleophosmin (nucleolar phosphoprotein B23, numatrin) (NPM1), mRNA /cds=(0,884)	1	CGGATGACTGACCAAGGCTATTCA AGATCTCTGGCAGTGGAGGAAGTC
2323	Table 3A	Hs.153952	NM_002526	4505466	5' nucleotidase (CD73) (NT5), mRNA /cds=(49,1773)	1	CCTAAATCTGTGTGTATTGTGAAG TGGTATAAGAAATGACTTTGAACC
2324	Table 3A	Hs.68196	NM_002528	6224977	nth (E.coli endonuclease III)-like 1 (NTHL1), mRNA /cds=(0,938)	1	CAGGCTGAGGTGGACCAAGAAAGGCA ACCAAGTCCCCAGAGGAGACCCGCG
2325	Table 3A	Hs.264981	NM_002535	4505484	2'-5'-oligoadenylate synthetase 2 (69-71 kD) (OAS2), transcript variant 2, mRNA /cds=(19,2082)	1	GAATGTAGGGAAGAGGTGCCAAGCC AACCGTGGGGTTAGCTCTAATTATT
2326	Table 3A	Hs.74583	NM_002537	9845506	ornithine decarboxylase antizyme 2 (OAZ2), mRNA /cds=UNKNOWN	1	ACGGGGATGTCAGGGAGGCAAGTGT GTTGTGTTACTGTGTCAATAAACTG
2327	Table 3A	Hs.75212	NM_002539	4505488	ornithine decarboxylase 1 (ODC1), mRNA /cds=(334,1719)	1	GGCAGAATGGGCCAAAAGCTTAGTG TTGTGACCTGTTTTAAATAAAGT
2328	literature	Hs.96398	NM_002542	7949101	8-oxoguanine DNA glycosylase (OGG1), nuclear gene encoding mitochondrial protein, transcript variant 1b, mRNA /cds=(1266,2240)	1	CAAGATGGGGTGGGGGATTTGAGG GAGACAGCGCTAAGGATGGTTTTAT
2329	Table 3A	Hs.77729	NM_002543	4505500	oxidised low density lipoprotein (lectin-like) receptor 1 (OLR1), mRNA /cds=(61,882)	1	TAGGCTTCTATTTCTTTCCACCCACT CTTCACAGGCTATTCTACTTTAA
2330	literature	Hs.81791	NM_002546	4507566	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) (TNFRSF11B), mRNA /cds=(94,1299)	1	GGTAACCAAGGTCCAATCAGTAAAAAT AAGCTGCTTATAACTGGAATGGC
2331	Table 3A	Hs.172182	NM_002568	4505574	poly(A)-binding protein, cytoplasmic 1 (PABPC1), mRNA /cds=(502,2403)	1	TCTGTTTTAAGTAACAGAATTGATAAC TGAGCAAGGAACGTAATTTGGA
2332	Table 3A	Hs.75716	NM_002575	4505594	serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 2 (SERPINB2), mRNA /cds=(72,1319)	1	TGCCTTTAATTGTTCTCATAATGAAGA ATAAGTAGGTACCTCCATGCC
2333	Table 3A	Hs.188	NM_002600	4505662	phosphodiesterase 4B, cAMP-specific (dunce (Drosophila)-homolog phosphodiesterase E4) (PDE4B), mRNA /cds=(765,2459)	1	TGCCATTAAGCAGGAATGTCATGTTT CAGTTCAATACAAAAGAAAACAT
2334	literature	Hs.37040	NM_002607	4505678	platelet-derived growth factor alpha polypeptide (PDGFA), mRNA /cds=(403,993)	1	ACCTGTTTTGTATACCTGAGAGCCTG CTATGTTCTTCTTTGTTGATCCA



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2335	literature	Hs.1976	NM_002608	4505680	platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog) (PDGFB), mRNA /cds=(1022,1747)	1	CTGCTTCCTTCAGTTTGTAAGTCGGTGATTATATTTTGGGGGCTTCC
2336	literature	Hs.81564	NM_002619	4505732	platelet factor 4 (PF4), mRNA /cds=(7,312)	1	AGCATACTTCTTTTTCCAGTTTCAATCTAACTGTGAAGAAACCTCTGA
2337	Table 3A	Hs.53155	NM_002621	4505736	properdin P factor, complement (PFC), mRNA /cds=(242,1651)	1	GAACCTCTAACACTTCTCTCCTCCACTCTGAGCCCCCTGACCTTCCAAACC
2338	literature	Hs.99910	NM_002627	11321600	phosphofructokinase, platelet (PFKP), mRNA /cds=(33,2387)	1	CCAGTGCCTGCTGCTGTGGAGTGTGTCTCATGCTTTCAGATGTGCATAT
2339	Table 3A	Hs.181013	NM_002629	4505752	phosphoglycerate mutase 1 (brain) (PGAM1), mRNA /cds=(31,795)	1	CCCTGCCACATGGGTCCAGTGTTTCATCTGAGCATACTGTACTAAATCCT
2340	Table 3A	Hs.78713	NM_002635	4505774	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3 (SLC25A3), nuclear gene encoding mitochondrial protein, transcript variant 1b, mRNA /cds=(48,1133)	1	TGCTTAAGGCAAGAGTTTCAGATTTCCTGTGAAATAAACCCAACTGTTT
2341	Table 3A	Hs.166204	NM_002636	13435395	PHD finger protein 1 (PHF1), transcript variant 2, mRNA /cds=(215,1918)	1	CCTGACCCCTCCCATCCTTCCCATTTCTTTGATGTTATTTTGTTACAGC
2342	Table 3A	Hs.112341	NM_002638	4505786	protease inhibitor 3, skin-derived (SKALP) (PI3), mRNA /cds=(119,472)	1	TAAGTCCCTGCTGCCCTTCCCTTCCCACACTGTCCATTCTCTCCTCCACT
2343	Table 3A	Hs.250697	NM_002643	4505796	ras-like protein (TC10), mRNA /cds=(0,641)	1	TGATGTGATTGTGAGCTTTTAAACTATGAAACCCCTGAGAGATTGTACCT
2344	db mining	Hs.32942	NM_002649	4505802	phosphoinositide-3-kinase, catalytic, gamma polypeptide (PIK3CG), mRNA /cds=(323,3628)	1	CCCAAAGGTTCTAAGCCCTGGCTGCAAGAAGAATCAACAGGGACACTTT
2345	Table 3A	Hs.154846	NM_002651	4505808	phosphatidylinositol 4-kinase, catalytic, beta polypeptide (PIK4CB), mRNA /cds=(69,2555)	1	TAGAAGTTTGCTTTTCCCTGCCTGTCTGGTGCACTACCACTCTTCCCT
2346	Table 3A	Hs.77274	NM_002658	4505862	plasminogen activator, urokinase (PLAU), mRNA /cds=(76,1371)	1	TGACCAGCACTGTCTCAGTTTCACTTTCACATAGATGTCCCTTCTTGCTG
2347	Table 3A	Hs.178657	NM_002659	4505864	plasminogen activator, urokinase receptor (PLAUR), mRNA /cds=(426,1433)	1	CTGCCATCTCAGCCTCACCATCACCCTGCTAATGACTGCCAGACTGTGG
2348	Table 3A	Hs.77436	NM_002664	4505878	pleckstrin (PLEK), mRNA /cds=(60,1112)	1	TTCTGAAGCTGTTCCCACTCCAGATGGTTTTATCAATAGCCTAGAGGT
2349	Table 3A	Hs.44499	NM_002687	4505922	pinin, desmosome associated protein (PNN), mRNA /cds=(30,2261)	1	GGATTACCTTTCCTTGTAAAGAGGATGCTGCCTTAAGAAATGCATGTTGT
2350	Table 3A	Hs.180107	NM_002690	4505930	polymerase (DNA directed), beta (POLB), mRNA /cds=(113,1120)	1	GGGTCTTTGGTGTTTTAAATGATTGTCTCTTCTCATGCTTTTGTCTTG
2351	literature	Hs.99890	NM_002691	4505932	polymerase (DNA directed), delta 1, catalytic subunit (125kD) (POLD1), mRNA /cds=(53,3376)	1	CATGGGGCGGGGGCGGGACCAGGGAGAATTAATAAAGTTCTGGACTTTTG
2352	Table 3A	Hs.334828	AB058697	14017804	mRNA for KIAA1794 protein, partial cds /cds=(1592,4000)	1	ATTTAAAGCACAGTTTGTTTTCTGTGCACCTATAGAGTGCAAGAAATGCAC
2353	Table 3A	Hs.79402	NM_002694	14702172	polymerase (RNA) II (DNA directed) polypeptide C (33kD) (POLR2C), transcript variant gamma, mRNA /cds=(57,884)	1	CAGCACTGTCTCCAGATAGGAACATGCACAAAGCAGTTAATTAGGCAGCC
2354	Table 3A	Hs.1101	NM_002698	4505958	POU domain, class 2, transcription factor 2 (POU2F2), mRNA /cds=(54,1445)	1	CTCCCTCCCATTCCTCTGGTCCCTGCCTTGTCCTCTGCCTGGGAAGAG
2355	Table 3A	Hs.2164	NM_002704	4505980	pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide III, neutrophil-activating peptide-2) (PPBP), mRNA /cds=(66,452)	1	AAGGTTGGTAAAAAGATGCGAGAAAGAAGATGAAAATAAATAAGCCTGGT
2356	Table 3A	Hs.17883	NM_002707	4505998	protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform (PPM1G), mRNA /cds=(24,1664)	1	CTCATACCGGTTCTGTGCTGTGCTCTGTTGTGTGGAGGGAAGGACTG
2357	Table 3A	Hs.77876	NM_002709	4506004	Homo sapiens, Similar to RIKEN cDNA 2410153K17 gene, clone MGC:19595 IMAGE:3840843, mRNA, complete cds /cds=(469,1899)	1	TTTGCTTGGCAACACGACTTGAAATAAATAAACTTTGTTCTTAGGAGA
2358	Table 3A	Hs.79081	NM_002710	4506006	protein phosphatase 1, catalytic subunit, gamma isoform (PPP1CC), mRNA /cds=(154,1125)	1	AAAAGAAATCTGTTTCAACAGATGACCGTGACAATACCGTGTGGTGAAA
2359	Table 3A	Hs.36587	NM_002712	4506012	protein phosphatase 1, regulatory subunit 7 (PPP1R7), mRNA /cds=(15,1097)	1	GACGCCACACACCATTTTCAGATGCCGTTGCAATTAATCTTGCCCACT
2360	Table 3A	Hs.179574	NM_002717	4506018	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform (PPP2R2A), mRNA /cds=(105,1448)	1	ATGTTTTAGTAACAGTTGGCTGTAATCACTCCTCGCGGTGTCTGGCACTG
2361	Table 3A	Hs.171734	NM_002719	4506022	protein phosphatase 2, regulatory subunit B (B56), gamma isoform (PPP2R5C), mRNA /cds=(88,1632)	1	AGTTCTGCGTTTGGCATCTTCACTCTTCCAAATGTATCTGTACATCAG
2362	Table 3A	Hs.1908	NM_002727	4506044	proteoglycan 1, secretory granule (PRG1), mRNA /cds=(24,500)	1	TGTGTTTGCAGAGCTAGTGGATGTGTTGTTCTACAAGTATGATTGCTGTT



Table 8

2363	Table 3A	Hs.183037	NM_002734	4506062	protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1) (PRKAR1A), mRNA /cds=(87,1232)	1	AAATCTGGGGAAGAGGTTTTATTAC ATTTTAGGGTGGGTAAGAAAGCCA
2364	Table 3A	Hs.2499	NM_002741	4506072	protein kinase C-like 1 (PRKCL1), mRNA /cds=(84,2912)	1	CAGAGCGGAGGCTGGGATCTAGCGA GAGAGATGCAGAAGATGTGAAGAAA
2365	literature	Hs.324473	NM_002745	4506086	40 kDa protein kinase related to rat ERK2 /cds=(134,1180)	1	CGTTTGGAGGGCGGTTTCTGGTAG TTGTGGCTTTTATGCTTCAAAGAA
2366	literature	Hs.267445	NM_002750	4506094	mRNA; cDNA DKFZp434B231 (from clone DKFZp434B231) /cds=UNKNOWN	1	GGGGTGGGAGGGATGGGGAGTCGG TTAGTCATTGATAGAACTACTTTGAA
2367	literature	Hs.274382	NM_002759	4506102	protein kinase, interferon-inducible double stranded RNA dependent (PRKR), mRNA /cds=(435,2090)	1	TGCAGAAACAGAAAGGTTTTCTTCTT TTGCTTCAAAACATTCTTACAT
2368	db mining	Hs.56	NM_002764	4506126	phosphoribosyl pyrophosphate synthetase 1 (PRPS1), mRNA /cds=(66,1022)	1	AGATTAAGCTGCTGGACCTCCTACCTG CATTATCTCATTCTGGCTTCCTTG
2369	Table 3A	Hs.82159	NM_002786	4506178	proteasome (prosome, macropain) subunit, alpha type, 1 (PSMA1), mRNA /cds=(105,898)	1	CTTTGTGGTTTTAAAGACAACGTGA AATAAAATGTTTCACCGCTGGT
2370	Table 3A	Hs.167108	NM_002788	4506182	proteasome (prosome, macropain) subunit, alpha type, 3 (PSMA3), mRNA /cds=(5,772)	1	GAACTCAGCTGGGTTGGTGAATTAAC TAATGGAAGACATGAAATTGTTCC
2371	Table 3A	Hs.251531	NM_002789	4506184	proteasome (prosome, macropain) subunit, alpha type, 4 (PSMA4), mRNA /cds=(59,844)	1	ACGATGATGGTTACCCCTTCATGGACG TCTTAATCTCCACACACATCCCC
2372	Table 3A	Hs.76913	NM_002790	4506188	proteasome (prosome, macropain) subunit, alpha type, 5 (PSMA5), mRNA /cds=(21,746)	1	TTCAGTCTAATAATGTCCTTAAATTT TATTTCCAGCTCCTGTTCTTGG
2373	Table 3A	Hs.233952	NM_002792	4506188	proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7), mRNA /cds=(24,770)	1	GCCTTTCCATTCCATTTATTCACACTG AGTGTCTCACAATAAACTTCGGT
2374	Table 3A	Hs.89545	NM_002796	4506198	proteasome (prosome, macropain) subunit, beta type, 4 (PSMB4), mRNA /cds=(23,817)	1	TGCATTATCCAGAACTGAAGTTGCC TACTTTTAACTTTGAACCTGGCTA
2375	Table 3A	Hs.118065	NM_002799	4506202	proteasome (prosome, macropain) subunit, beta type, 7 (PSMB7), mRNA /cds=(14,847)	1	GCCCAGTAAGACACTCATGTGGCTAG TGTTTGCCGAATGAAACTCAACTC
2376	Table 3A	Hs.61153	NM_002803	4506208	proteasome (prosome, macropain) 26S subunit, ATPase, 2 (PSMC2), mRNA /cds=(66,1367)	1	TAAGTCTTATGCCAAATTCAGTGCTA CTCCTCGTTACATGACATACAAC
2377	Table 3A	Hs.79387	NM_002805	4506212	proteasome (prosome, macropain) 26S subunit, ATPase, 5 (PSMC5), mRNA /cds=(0,1220)	1	AAGTGAGTGGACAGCCTTTGTGTGTA TCTCTCCAATAAGCTCTGTGGGC
2378	Table 3A	Hs.341867	NM_002807	4506224	z172b08.r1 cDNA, 5' end /clone=IMAGE:727863 /clone_end=5'	1	TCTCCAAGTCTTTGGTTGAAGAGAAG ATATATGACTGTTGAGTGTGCTCT
2379	Table 3A	Hs.74619	NM_002808	4506226	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2 (PSMD2), mRNA /cds=(112,2673)	1	GGGGAATTGTGCGCTCCTGCTCTTT GTACTGAGTGAGATAAGGTTGTT
2380	Table 3A	Hs.155543	NM_002811	4506230	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mov34 homolog) (PSMD7), mRNA /cds=(83,1057)	1	TGGCATCCTCAGGGGTTGTGATCCA GCTCCATATATTGTTACCTTCAAA
2381	Table 3A	Hs.78466	NM_002812	4506232	proteasome (prosome, macropain) 26S subunit, non-ATPase, 8 (PSMD8), mRNA /cds=(70,843)	1	CGGGCACTGGGTGGGGCAGGGCAC GAGTTATTTAAACAGTTACACTGCA
2382	Table 3A	Hs.308328	NM_002817	4506222	mRNA activated in tumor suppression, clone TSAP13 extended /cds=UNKNOWN	1	CGGACATCTTTCCGTTGCGGTTTGA GAATGTTCTATAATAAACCCCTC
2383	Table 3A	Hs.250655	NM_002823	4506276	prothymosin, alpha (gene sequence 28) (PTMA), mRNA /cds=(155,487)	1	TTTGGCCTGTTTGTATGTATGTGTA AACAAATGTTGCCAACAAATAACA
2384	Table 3A	Hs.155894	NM_002827	4506288	protein tyrosine phosphatase, non-receptor type 1 (PTPN1), mRNA /cds=(72,1379)	1	AGCGAGCTGCTCTGCTATGCTCTTAA GCCAATATTACTCATCAGGTCAT
2385	Table 3A	Hs.82829	NM_002828	4506290	protein tyrosine phosphatase, non-receptor type 2 (PTPN2), mRNA /cds=(60,1307)	1	TGTAGTTGGGGTAGATTATGATTTAG GAAGCAAAAGTAAGAAGCAGCATT
2386	Table 3A	Hs.63489	NM_002831	4506296	protein tyrosine phosphatase, non-receptor type 6 (PTPN6), mRNA /cds=(144,1931)	1	GCGATGGACAGACTCACAACCTGAA CCTAGGAGTGCCCATCTTTTGTA
2387	Table 3A	Hs.35	NM_002832	4506298	protein tyrosine phosphatase, non-receptor type 7 (PTPN7), mRNA /cds=(155,1174)	1	GCTCAGGAGGGTACAAGCTCCAGAA CAGTAACCAAGTGGGAAATAAAGA
2388	Table 3A	Hs.62	NM_002835	4506286	protein tyrosine phosphatase, non-receptor type 12 (PTPN12), mRNA /cds=(19,2381)	1	CTGGATTTCATGCAGCCAGCTTTGCGAG GTTATCAGAGATCAAGATTGTAA
2389	Table 3A	Hs.26045	NM_002836	4506302	protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA /cds=(695,3103)	1	TATCATGGGGAGTAATAGGACCAGAG CGGTATCTCTGGCACCACACTAGC

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2390	Table 3A	Hs.170121	NM_002838	4506306	protein tyrosine phosphatase, receptor type, C (PTPRC), mRNA /cds=(86,4000)	1	CTGTGGAAAAATATTAAAGATAGTTTT GCCAGAACAGTTTGTACAGACGT
2391	Table 3A	Hs.2050	NM_002852	4506332	pentaxin-related gene, rapidly induced by IL-1 beta (PTX3), mRNA /cds=(67,1212)	1	ACTCTCAAATAATTAAGGACTGT TTGTTGAACAGAGGGACAATTGT
2392	literature	Hs.7179	NM_002853	4506384	RAD1 (S. pombe) homolog (RAD1), mRNA /cds=(437,1285)	1	AACATCATGGGAATAATTGTGAGTCAG CGTAACATTTCAAGAGCTCAAAGG
2393	Table 3A	Hs.151536	NM_002870	4506362	RAB13, member RAS oncogene family (RAB13), mRNA /cds=(139,750)	1	TGCTCCTGTTCTGTCACTTGTCTATGG TCTTTCTTGGTATTAAAGGCCACC
2394	literature	Hs.16184	NM_002873	4506382	RAD17 (S. pombe) homolog (RAD17), mRNA /cds=(642,2654)	1	GGGGTTGTAAATATCAACTATTCAAC AGTTTAGGATGCAATTACGAGTGT
2395	literature	Hs.23044	NM_002875	4506388	Homo sapiens, Similar to RIKEN cDNA 2610036L13 gene, clone MGC:16386 IMAGE:3938081, mRNA, complete cds /cds=(82,840)	1	AATCTTATGTTTCCAAGAGAACTAAA GCTGGAGAGACCTGACCCCTCTCT
2396	literature	Hs.11393	NM_002876	4506390	RAD51 (S. cerevisiae) homolog C (RAD51C), mRNA /cds=(16,423)	1	TGCACCAGGTGTTGGAAAAACACAAT TATGGTAAATAAAGTGTCTCCT
2397	literature	Hs.100669	NM_002877	10835028	RAD51 (S. cerevisiae)-like 1 (RAD51L1), mRNA /cds=(70,1122)	1	AATGGGCACACAGGGAACAGGAAAT GGGAATGAGAGCAGGAGGTGGTGG
2398	literature	Hs.125244	NM_002878	4506392	RAD51 (S. cerevisiae)-like 3 (RAD51L3), mRNA /cds=(124,993)	1	TCTTCTTCATCTCTGTTTGTCTTTAA AAATATAAAAAGGCAATTCCTCC
2399	literature	Hs.89571	NM_002879	4506394	RAD52 (S. cerevisiae) homolog (RAD52), mRNA /cds=(31,1290)	1	AGATGTAACCCACCTTGACCATAAAT TGGCTTTTCATAGTGCTCAGATGT
2400	Table 3A	Hs.279474	NM_002880	8850222	HSPC070 protein (HSPC070), mRNA /cds=(331,1581)	1	CTAGGCTCTGGGCACATTTCTGTGTC TTGAATTCTGCTCCTGAAGAGGGT
2401	Table 3A	Hs.24763	NM_002882	6382077	RAN binding protein 1 (RANBP1)	1	TACCCTGCCCTCTTTTTCGGTTTGT TTTTATTTCTTTCATTTTACAAGG
2402	Table 3A	Hs.758	NM_002890	4506430	RAS p21 protein activator (GTPase activating protein) 1 (RASA1), transcript variant 1, mRNA /cds=(118,3261)	1	GCTGCCTAACTTATCCATCTTTGAAC TTCTGACTACTTGTGTATCTGCT
2403	Table 3A	Hs.29287	NM_002894	4506440	retinoblastoma-binding protein 8 (RBBP8), mRNA /cds=(298,2991)	1	CCTTTAAACAATAAGGCGCTTTTCATT TTGCACTCTAACTTAAGAGTTTT
2404	Table 3A	Hs.6106	NM_002896	4506444	RNA binding motif protein 4 (RBM4), mRNA /cds=(55,1155)	1	TCCTGCCTCCTGCGGCTGTTGGATT GGGAATGACCTTGGTGAGAGTCTC
2405	Table 3A	Hs.167791	NM_002901	4506454	reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA /cds=(52,1047)	1	ATACTCTGAGCTGTGGACTGAACCTGG CAGACACAACCTGTACAGATTGAA
2406	literature	Hs.115521	NM_002912	4506482	REV3 (yeast homolog)-like, catalytic subunit of DNA polymerase zeta (REV3L), mRNA /cds=(822,9980)	1	AAGGAATTATGTGGTCAGTGCATTGT TTTTTAACTGGAAATCATTTTGT
2407	Table 3A	Hs.75256	NM_002922	4506514	regulator of G-protein signalling 1 (RGS1), mRNA /cds=(14,604)	1	TGCTCTTAAACCAGGGAGTCAGATA TATTTGTAAGGTAAATCATTTGGT
2408	Table 3A	Hs.78944	NM_002923	4506516	regulator of G-protein signalling 2, 24kD (RGS2), mRNA /cds=(32,667)	1	GCCAAAATCTGTCTTGAAGGCAGCT ACACTTTGAAGTGGCTTTTGAATA
2409	Table 3A	Hs.82280	NM_002925	11184225	regulator of G-protein signalling 10 (RGS10), mRNA /cds=(43,546)	1	CCTCTCAGACGTGCCGGGTTTATCA TTGCTTTGTTATTTGTAAGGACTG
2410	Table 3A	Hs.1010	NM_002932	4506544	regulator of mitotic spindle assembly 1 (RMSA1), mRNA /cds=(774,2030)	1	TGACTATCTGTAATGGATCAATTTTG GATATGACTTTGGGTGGGGTAA
2411	Table 3A	Hs.84318	NM_002945	4506582	replication protein A1 (70kD) (RPA1), mRNA /cds=(69,1919)	1	CGAGCTGAGAAGCGGTCATGAGCAC CTGGGGATTTTGTAGTGTGTCTT
2412	Table 3A	Hs.79411	NM_002946	4506584	replication protein A2 (32kD) (RPA2), mRNA /cds=(77,889)	1	GGTAGTGCCCTCCAGGGGAGAGGAA AAGAAGAAGTGTACTGCATTTTGT
2413	literature	Hs.1608	NM_002947	4506586	replication protein A3 (14kD) (RPA3), mRNA /cds=(30,395)	1	ATGGTCAAGATTAGATGCAAGTTAA GCAGTTGTCAGAGTCTAAGTTTCT
2414	Table 3A	Hs.2280	NM_002950	4506674	ribophorin I (RPN1), mRNA /cds=(137,1960)	1	TGGTATTCTGTTCTGAAGTCTAGGAT ATTTTTCAGCCATAAAGCCCTCT
2415	Table 3A	Hs.169476	NM_002951	4506676	Homo sapiens, glyceraldehyde-3-phosphate dehydrogenase, clone MGC:10926 IMAGE:3628129, mRNA, complete cds /cds=(2306,3313)	1	ACTTACCCAGATGTTGCTTTTGA GTTGAAATGTGAATTGTTTGGGA
2416	Table 3A	Hs.182426	NM_002952	4506718	ribosomal protein S2 (RPS2), mRNA /cds=(11,892)	1	AGCGGACTCAGGCTCCAGCTGTGGC TACAACATAGGGTTTTTATACAAGA
2417	Table 3A	Hs.3297	NM_002954	4506712	ribosomal protein S27a (RPS27A), mRNA /cds=(38,508)	1	TTATTGTGGCAATGTTGTCTGACTTA CTGTTTCAACAAACCAGAAGACA
2418	db mining	Hs.20084	NM_002957	10862707	retinoid X receptor, alpha (RXRA), mRNA /cds=(75,1483)	1	TGGACAGTAGCATTAGAAATTTGGAA AAGGAACACGCAAGGGAGAAAGTG
2419	Table 3A	Hs.79350	NM_002958	11863158	RYK receptor-like tyrosine kinase (RYK), mRNA /cds=(103,1917)	1	CTGGTAAATTTTGTCTTATCTTCAAG GCTGGCTTAAGTATAAAGTTGTT
2420	Table 3A	Hs.81256	NM_002961	9845514	S100 calcium-binding protein A4 (calcium protein, calvasculin, metastasin, murine placental homolog) (S100A4), transcript variant 1, mRNA /cds=(69,374)	1	CCCTGGCTCCTTCAGACACGTGCTTG ATGCTGAGCAAGTTCAATAAAGAT
2421	Table 3A	Hs.100000	NM_002964	9845519	S100 calcium-binding protein A8 (calgranulin A) (S100A8), mRNA /cds=(55,339)	1	GTTAACTTCCAGGAGTTCCTCATTTCT GGTGATAAAGATGGGCTGGCAGCC
2422	Table 3A	Hs.23978	NM_002967	4508778	scaffold attachment factor B (SAFB), mRNA /cds=(53,2800)	1	CCTGTCTCGTGGCAACAGGCTATGT TCTGTTAGGAGTTACCTTAAACTG

Table 8

2423	Table 3A	Hs.28491	NM_002970	4506788	spermidine/spermine N1-acetyltransferase (SAT), mRNA /cds=(165,680)	1	AGTCAGATCTTTCTCCTTGAATATCTTTCGATAAAACAAGGTGGTGTG
2424	Table 3A	Hs.74592	NM_002971	4506790	special AT-rich sequence binding protein 1 (binds to nuclear matrix/scaffold-associating DNA's) (SATB1), mRNA /cds=(214,2505)	1	TCCTATAATTATTTCTGTAGCACTCCA CACTGATCTTTGGAACTTGCCC
2425	Table 3A	Hs.112842	NM_002978	4506818	sodium channel, nonvoltage-gated 1, delta (SCNN1D), mRNA /cds=(0,1916)	1	CCACGGGTGATGCTTCCAGGGGTTCTGGCGGGAGTCTCAGCCGAAGAGAG
2426	Table 3A	Hs.303649	NM_002982	4506840	small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig-je) (SCYA2), mRNA /cds=(53,352)	1	GAAATTGCTTTTCTCTTGAACCACAGTTCTACCCCTGGGATGTTTTGAG
2427	Table 3A	Hs.73817	NM_002983	4506842	small inducible cytokine A3 (homologous to mouse Mip-1a) (SCYA3), mRNA /cds=(83,361)	1	ACCAGACTGACAAATGTGTATCGGATGCTTTTGTTCAGGGCTGTGATCGG
2428	Table 3A	Hs.75703	NM_002984	4506844	small inducible cytokine subfamily A4 (homologous to mouse Mip-1b) (SCYA4), mRNA /cds=(108,386)	1	CCACTGTCACTGTTTCTCTGCTGTTGCAAATACATGGATAACACATTGGA
2429	db mining	Hs.66742	NM_002987	4506828	small inducible cytokine subfamily A (Cys-Cys), member 17 (SCYA17), mRNA /cds=(52,336)	1	CGAAGAAGAGCCACAGTGAGGGAGATCCCATCCCCCTTGCTGAAGTGGAG
2430	cytokine arrays	Hs.57907	NM_002989	4506834	small inducible cytokine subfamily A (Cys-Cys), member 21 (SCYA21), mRNA /cds=(58,462)	1	GACCTGATACGGCTCCCCAGTACACCCCACCTCTTCTTGTAATATGAT
2431	Table 3A	Hs.97203	NM_002990	4506836	small inducible cytokine subfamily A (Cys-Cys), member 22 (SCYA22), mRNA /cds=(19,300)	1	CTCAAGCGTCTGGGATCTCCTTCTCCTCTGTCTGTCTTGTGCCCTC
2432	Table 3A	Hs.247838	NM_002991	4506838	small inducible cytokine subfamily A (Cys-Cys), member 24 (SCYA24), mRNA /cds=(0,359)	1	CCTCAAGGGAGGAGTGATCTTCACCA CCAAGAAGGGCCAGCAGTTCTGTG
2433	Table 3A	Hs.164021	NM_002993	4506850	small inducible cytokine subfamily B (Cys-X-Cys), member 8 (granulocyte chemotactic protein 2) (SCYB6), mRNA /cds=(63,407)	1	TCCTGTGTGTCATGTTGGTTTTTGGT ACTTGTATTGTCATTTGGAGAAAC
2434	Table 3A	Hs.89714	NM_002994	4506848	small inducible cytokine subfamily B (Cys-X-Cys), member 5 (epithelial-derived neutrophil-activating peptide 78) (SCYB5), mRNA /cds=(106,450)	1	TCCTGTGATGGAATACAAGTGGTATCTTCACTTTTTAGGAATTGGGAA
2435	Table 3A	Hs.3195	NM_002995	4506852	small inducible cytokine subfamily C, member 1 (lymphotactin) (SCYC1), mRNA /cds=(20,364)	1	AATTTGCAGTAACTTTTAATTAATGCTCATCTGGTAACTCAACACCCC
2436	Table 3A	Hs.3577	NM_003001	9257243	succinate dehydrogenase complex, subunit C, integral membrane protein, 15kD (SDHC), nuclear gene encoding mitochondrial protein, mRNA /cds=(26,535)	1	GCTGCTTTTGAGGAGAAAATATATAGCTTTGGACACGAGGAAGATCTAGA
2437	Table 3A	Hs.168289	NM_003002	4506864	succinate dehydrogenase complex, subunit D, integral membrane protein (SDHD), nuclear gene encoding mitochondrial protein, mRNA /cds=(11,490)	1	AAACGCTTGGAGTGCTTCTGAATATACAGAAGTCCATTTAAGGGCAAGT
2438	Table 3A	Hs.75232	NM_003003	4506866	SEC14 (S. cerevisiae)-like 1 (SEC14L1), mRNA /cds=(303,2450)	1	TGCATCGTGTCTTCTACCTTTAGTACCTTGCCACTCTTTTAAACCGTGTCT
2439	Table 3A	Hs.73800	NM_003005	6031196	selectin P (granule membrane protein 140kD, antigen CD62) (SELP), mRNA /cds=(95,2587)	1	GACCTTCTGCCACCACTCACTGTCCCTCAAAATGACCCAAAGACCAATAT
2440	Table 3A	Hs.79283	NM_003006	6031197	selectin P ligand (SELP2), mRNA /cds=(59,1267)	1	AGACCTTCTTTGGGACTGTGTGGACCAAGGAGCTTCCATCTAGTGACAA
2441	Table 3A	Hs.75217	NM_003010	4506888	mitogen-activated protein kinase kinase 4 (MAP2K4), mRNA /cds=(9,1208)	1	GCTCAGTAACATAACTGCTTCTTGGAGCTTTGGAATATTTATCTCTGTAT
2442	Table 3A	Hs.145279	NM_003011	4506890	SET translocation (myeloid leukemia-associated) (SET), mRNA /cds=(3,836)	1	TTCTGCACAGGTCTCTGTTTAGTAAATACATCACTGTATACCGATCAGGA
2443	Table 3A	Hs.73965	NM_003016	4506898	splicing factor, arginine/serine-rich 2 (SFRS2), mRNA /cds=(155,820)	1	CGGGCCTTGCATATAAATAACGGAGCATACAGTGAGCACATCTAGCTGAT
2444	Table 3A	Hs.14368	NM_003022	4506924	SH3 domain binding glutamic acid-rich protein like (SH3BGR1), mRNA /cds=(78,422)	1	AGAGATGCCCTTTGTTTGTGATGAGATTCAAACCTTGATGCTATGCTTTAAAT
2445	Table 3A	Hs.2554	NM_003032	4506948	sialyltransferase 1 (beta-galactoside alpha-2,6-sialyltransferase) (SIAT1), mRNA /cds=(310,1530)	1	AGTCCCATCTTCTCTTTCAATACCTACCCCAATCTCTCTCAACCCCT
2446	Table 3A	Hs.323032	NM_003035	4506958	TAL1 (SCL) interrupting locus (SIL), mRNA /cds=(380,4243)	1	TGTCACACTGGCTATCAAAGAATAAGAAAATTATTGAGTATGAGTGTGT
2447	Table 3A	Hs.32970	NM_003037	4506968	signaling lymphocytic activation molecule (SLAMF), mRNA /cds=(133,1140)	1	GCAAAACCCAGAGCTAAAAAGTCAA TAAACAGAAAGATGATTTTGAGA

Table 8

2448	Table 3A	Hs.198296	NM_003070	4507068	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2), mRNA /cds=(297,5015)	1	TTGTGACCAATGGGCCCTCAAAGATT CAGATTGAAACAAACAAAAGCTT
2449	Table 3A	Hs.236030	NM_003075	4507080	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2 (SMARCC2), mRNA /cds=(22,3663)	1	AAGGTTCTATTAACCACTTCTAAGGG TACACCTCCCTCCAACTACTGCA
2450	Table 3A	Hs.79335	NM_003076	4507082	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 (SMARCD1), mRNA /cds=(265,1572)	1	GTTGTATCACCCCGAGTTAGCATAT CCCAGGCTCGCAGACTCAACACAG
2451	Table 3A	Hs.174051	NM_003089	4507118	small nuclear ribonucleoprotein 70kD polypeptide (RNP antigen) (SNRP70), mRNA /cds=(680,2524)	1	CCACTTGAGTTTGCTCCCAAGGGTA GGTGTCTCATTGTCTGGCCCT
2452	Table 3A	Hs.31121	NM_003098	4507136	syntrophin, alpha 1(dystrophin-associated protein A1, 59kD, acidic component) (SNTA1), mRNA /cds=(37,1554)	1	TCCTGTCTCTCTCCTCTACTCTTG GATAAAATAACAGCCTGTGAGCAC
2453	Table 3A	Hs.11183	NM_003100	4507140	sorting nexin 2 (SNX2), mRNA /cds=(29,1588)	1	CCTGACCCCTTTGAATTAAGTGAC TGTGGCATGACATTCTGCAACT
2454	Table 3A	Hs.92909	NM_003103	4507152	NREBP mRNA, complete cds /cds=(49,7209)	1	TCTAACTTTATTTCAAAGCTTAAG GCCCAAATACAACTTCTCTGGA
2455	Table 3A	Hs.278571	NM_003105	6325473	sortilin-related receptor, L(DLR class) A repeats-containing (SORL1), mRNA /cds=(197,6841)	1	CATGGTGTAGCCTGAAAGAGCTTTC CTCACTAGAAACCAATGGTGTA
2456	Table 3A	Hs.21293	NM_003115	4507758	UDP-N-acetylglucosamine pyrophosphorylase 1 (UAP1), mRNA /cds=(0,1517)	1	GGAGAAGGATTAGAAAGTTATGTGGC AGATAAGAATTCATGCACCTCT
2457	Table 3A	Hs.71465	NM_003129	6806899	squalene epoxidase (SQLE), mRNA /cds=(214,1938)	1	ACAGTTTTTCTTTGAATTTAGTATTT GAGATGAGTTGTTGGGACATGCA
2458	Table 3A	Hs.300741	NM_003130	4507206	sorcin (SR), mRNA /cds=(12,608)	1	GATCTAGTCTGTTACACCATTTAGAA CTTTCCTCAGCCATTATCAGTCAT
2459	Table 3A	Hs.75975	NM_003133	4507216	signal recognition particle 9kD (SRP9), mRNA /cds=(106,366)	1	AGCATGGTAAGTTCCTTAGCTATAT GAATTTTGGCATGTTTCAGAGAGA
2460	Table 3A	Hs.75761	NM_003137	4507218	SFRS protein kinase 1 (SRPK1), mRNA /cds=(108,2075)	1	ACATTTTATCTCTCTACTGAGGGCA TTGTCTGTTTCTTTGTAATGTC
2461	Table 3A	Hs.83715	NM_003142	10835066	Sjogren syndrome antigen B (autoantigen La) (SSB), mRNA /cds=(72,1298)	1	AAAAGGAAAACCGAATTAGGTCCACT TCAATGTCCACCTGTGAGAAAGGA
2462	Table 3A	Hs.250773	NM_003144	6552340	signal sequence receptor, alpha (translocon-associated protein alpha) (SSR1), mRNA /cds=(111,971)	1	CCTATCCCCGGATGTGTGAGAATAAT GTGTTCCATAAGCATGGATCTCGT
2463	Table 3A	Hs.74564	NM_003145	6552341	signal sequence receptor, beta (translocon-associated protein beta) (SSR2), mRNA /cds=(50,601)	1	CCAGTGCTATTCTGGGTTAGAGAAG TGCTTACTAAGGGGTTTCTAATA
2464	Table 3A	Hs.321677	NM_003150	4507252	signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3), mRNA /cds=(220,2532)	1	GGGTGATCTGCTTTTATCTAAATGCA AATAAGGATGTGTTCTCTGAGACC
2465	Table 3A	Hs.80642	NM_003151	4507254	signal transducer and activator of transcription 4 (STAT4), mRNA /cds=(81,2327)	1	GGGAGTGTGTGACTGAAATGCTTGA AACCAAAGCTTCAGATAAACTTGC
2466	literature	Hs.251664	NM_003153	4507258	DNA for insulin-like growth factor II (IGF-2); exon 7 and additional ORF /cds=(0,233)	1	GAGCCAATCCACTCCTTCTTTCTAT CATTCCTGCCCACCTCCTTCCA
2467	Table 3A	Hs.70186	NM_003169	4507312	suppressor of Ty (S.cerevisiae) 5 homolog (SUPT5H), mRNA /cds=(48,3311)	1	CTTCCTGTACCTCCTCCACAGCTT GCITTTGTTGACCGTCTTTCAAT
2468	Table 3A	Hs.12303	NM_003170	11321572	suppressor of Ty (S.cerevisiae) 6 homolog (SUPT6H), mRNA /cds=(1164,5975)	1	GCTGCTGCCACCGCTTCTGCCTGT CATTTGAATAACAGTGTTCTATT
2469	Table 3A	Hs.106469	NM_003171	4507314	suppressor of var1 (S.cerevisiae) 3-like 1 (SUPV3L1), mRNA /cds=(0,2360)	1	TGGGACTCATCAAAGGGACGAGA AGAAAGAAGAAGAACCTGATTCGG
2470	Table 3A	Hs.3196	NM_003172	4507318	surfeit 1 (SURF1), mRNA /cds=(14,916)	1	TCAAGACTGCCTTTATGCTGGATCAT GTGCTACTGGTATAAAGTTCTGGC
2471	Table 3A	Hs.37936	NM_003173	4507320	suppressor of variegation 3-9 (Drosophila) homolog 1 (SUV39H1), mRNA /cds=(45,1283)	1	GTACACCCCTCAACCTATGCAGCCT GGAGTGGGCATCAATAAAATGAAC
2472	literature	Hs.74101	NM_003177	4507328	spleen tyrosine kinase (SYK), mRNA /cds=(148,1986)	1	CCATGAGACTGATCCCTGGCCACTGA AAAGCTTTCCTGACATAAAAAATG
2473	Table 3A	Hs.32675	NM_003193	6006029	tubulin-specific chaperone e (TBCE), mRNA /cds=(80,1663)	1	TTGGGAAGTGACCATTTCTAGGCTTA TACATAATAGCAATAATAAAGGCT
2474	Table 3A	Hs.171626	NM_003197	6006030	transcription elongation factor B (SIII), polypeptide 1-like (TCEB1L), mRNA /cds=(101,592)	1	ATGTGGTAAACCCAGAAAGCATCCA TCATGAATGCAAGATACTTTCAAT
2475	Table 3A	Hs.75133	NM_003201	4507400	transcription factor 6-like 1 (mitochondrial transcription factor 1-like) (TCF6L1), mRNA /cds=(132,872)	1	TTACATTGTATTGAGAGTTGATGGTT GTACATATAAGTGATTGCTGGTT

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2476	Table 3A	Hs.169294	NM_003202	4507402	transcription factor 7 (T-cell specific, HMG-box) (TCF7), mRNA /cds=(79,885)	1	GCCACTGGTTTCTCAGAATCCAAAGA TCACATATTC TAGTGAACACTGC
2477	Table 3A	Hs.74637	NM_003217	4507432	testis enhanced gene transcript (TEGT), mRNA /cds=(40,753)	1	CTGTGCTTTTTGCTTGGGATAATGGA GTTTTTCTTTAGAAACAGTGCCAA
2478	Table 3A	Hs.77356	NM_003234	4507456	transferrin receptor (p90, CD71) (TFRC), mRNA /cds=(263,2545)	1	TATCAGACTAGTGACAAGCTCCTGGT CTTGAGATGCTTCTCGTTAAGGA
2479	Table 3A	Hs.79059	NM_003243	4507470	transforming growth factor, beta receptor III (betaglycan, 300kD) (TGFB3), mRNA /cds=(348,2897)	1	AGGGCTTGAGGTGAATTCATTAAAT GGAATAATATGATGCCACTTTGCA
2480	Table 3A	Hs.87409	NM_003246	4507484	thrombospondin 1 (THBS1), mRNA /cds=(111,3623)	1	TTGACCTCCCATTTTTACTATTTGCCA ATACCTTTTTCTAGGAATGTGCT
2481	Table 3A	Hs.63668	NM_003264	4507528	toll-like receptor 2 (TLR2), mRNA /cds=(129,2483)	1	AGCGGGAAGGATTTTGGGTAATCTG AGAGCTGCGATAAAGCTTAGGTT
2482	Table 3A	Hs.159239	NM_003266	4507532	toll-like receptor 4 (TLR4), mRNA /cds=(284,2683)	1	TGATGTTTGATGGACCTATGAATCTA TTTAGGGAGACACAGATGGCTGGG
2483	Table 3A	Hs.31130	NM_003273	4507546	transmembrane 7 superfamily member 2 (TM7SF2), mRNA /cds=(254,2023)	1	AGCCCTGAGGTGAACCAACCTCAGA GAAGAGGTGGTTAGAGCAAGGAAA
2484	Table 3A	Hs.1117	NM_003291	4507656	tripeptidyl peptidase II (TPP2), mRNA /cds=(23,3772)	1	AATAAATTTGCAAAACCAAGATCACA GTACACCATATGCACCTCTGGTACC
2485	Table 3A	Hs.326456	NM_003295	4507668	hypothetical protein FLJ20030 (FLJ20030), mRNA /cds=(1,1239)	1	TTTGGAGTGGAGGCATTGTTTAAAG AAAAACATGTCATGATGGTTGCTT
2486	Table 3A	Hs.5542	NM_003315	4507712	tetratricopeptide repeat domain 2 (TTC2), mRNA /cds=(26,1480)	1	GCGGGGGTGACAGGGAGGCAGCTT GTGAATTTTGTGTTTACTGTTTAA
2487	Table 3A	Hs.178551	NM_003316	10835036	ribosomal protein L8 (RPL8), mRNA /cds=(43,816)	1	AACTTCAGATACTGTGAACCTGCCT TATATTTGTCCAACAACGTGTCAGA
2488	Table 3A	Hs.274401	NM_003321	4507732	mRNA; cDNA DKFZp434P086 (from clone DKFZp434P086); partial cds /cds=(798,1574)	1	GAAGGGTTGGCCTGCCTGGCTGGGG AGGTCAGTAAACTTTGAATAGTAA
2489	literature	Hs.129780	NM_003327	4507578	tumor necrosis factor receptor superfamily, member 4 (TNFRSF4), mRNA /cds=(5,838)	1	AAGATGTACCCTTCAGGTGAACCTGG TATCAGACCCACAGTACTTGCTGT
2490	Table 3A	Hs.29877	NM_003328	4507742	TXK tyrosine kinase (TXK), mRNA /cds=(86,1669)	1	AGCAAGATAGCCAAATGTGACATCAA GCTCCATTGTTTCGGAATCCAGG
2491	Table 3A	Hs.13046	NM_003330	4507746	thioredoxin reductase 1 (TXNRD1), mRNA /cds=(439,1932)	1	AGTGAATGTTCTATCCCCACAAGAA GGATTATATCTTATAGACTTGCTCT
2492	Table 3A	Hs.5308	NM_003333	4507760	ubiquitin A-52 residue ribosomal protein fusion product 1 (UBA52), mRNA /cds=(37,423)	1	CCCGTGGCCCTGGAGCCTCAAGTAAA GTGTCCTTTCACTGAGTGAGCAG
2493	Table 3A	Hs.80612	NM_003336	4507768	ubiquitin-conjugating enzyme E2A (RAD6 homolog) (UBE2A), mRNA /cds=(120,578)	1	TTATGCATTATCACTTCCAATCTAA CTTTGACAAGTAACCCATGTAA
2494	Table 3A	Hs.811	NM_003337	4507770	ubiquitin-conjugating enzyme E2B (RAD6 homolog) (UBE2B), mRNA /cds=(421,879)	1	TCCGCACTATATAATTCGCACACATT AATTAGGGTTTATGTACCATACAA
2495	literature	Hs.75355	NM_003348	4507792	ubiquitin-conjugating enzyme E2N (homologous to yeast UBC13) (UBE2N), mRNA /cds=(63,521)	1	GCTTGTGACCACTTTTGTATGGCTTGT CTGAAACTTCTGTAAATCTTATG
2496	Table 3A	Hs.283667	NM_003349	12025659	arginyl aminopeptidase (aminopeptidase B) (RNPEP), mRNA /cds=(9,1982)	1	TGCTGATTATGCAAAGGCTGGCAT TCTGATGCTTTTCAGGTTAATCC
2497	literature	Hs.79300	NM_003350	12025664	ubiquitin-conjugating enzyme E2 variant 2 (UBE2V2), mRNA /cds=(21,458)	1	TGCATTCTGGCAGTTCTTTTAGGATT ATAGGTGCAAATATCCAATAT
2498	Table 3A	Hs.80658	NM_003355	13259540	uncoupling protein 2 (mitochondrial, proton carrier) (UCP2), nuclear gene encoding mitochondrial protein, mRNA /cds=(380,1309)	1	CCGACAGCCCAGCCTAGCCCCTTG TCATCCATAAGCAAGCTCAACCTT
2499	literature	Hs.78853	NM_003362	6224978	uracil-DNA glycosylase (UNG), mRNA /cds=(106,1020)	1	TTTGCTGTAGTCGGGTTAGAGTTGG CTCTACCGCGAGTTTGTAAATAAA
2500	Table 3A	Hs.77500	NM_003363	4507852	ubiquitin specific protease 4 (proto-oncogene) (USP4), mRNA /cds=(3,2894)	1	CAGACTGCTAGTGTCTGTCTCAAAAA CCAGACAAGGAAATACCCCTCTTT
2501	literature	Hs.173554	NM_003368	4507842	ubiquinol-cytochrome c reductase core protein II (UQCRC2), mRNA /cds=(53,1414)	1	TTTTCCAGTGAGGTAATAAGGCAT AAATGCAGTAATTATCCAGCT
2502	Table 3A	Hs.93649	NM_003367	4507846	upstream transcription factor 2, c-fos interacting (USF2), mRNA /cds=(0,1040)	1	CCGGCACTTCTAGTGTCTCACCTGG AGGCAAGAGGGAGGGTACAGAGCC
2503	Table 3A	Hs.284192	NM_003374	4507878	clone HQ0072 /cds=UNKNOWN	1	TTTAGAGTCTTCCATTTTGTGGAATT AGATCCTCCCTTCAAATGCTGT
2504	Table 3A	Hs.155191	NM_003379	9257254	villin 2 (ezrin) (VIL2), mRNA /cds=(117,1877)	1	TTCTCCTTCACAGCTAAGATGCCATG TGCAGGTGGATTCCATGCCGCAGA
2505	Table 3A	Hs.297753	NM_003380	4507894	vimentin (VIM), mRNA /cds=(122,1522)	1	TTTCCAGCAAGTATCCAACCACTTG GTTCTGCTTCAATAATCTTTGGA
2506	Table 3A	Hs.24143	NM_003387	8400739	Wiskott-Aldrich syndrome protein interacting protein (WASPIP), mRNA /cds=(108,1619)	1	ATGACTTGATCCCACTTCCACCA ACCAAATCAAACATTCAGTGCTT

Table 8

2507	literature	Hs.150930	NM_003401	12408643	X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), transcript variant 3, mRNA /cds=(175,1179)	1	TGTATGAGACTTTTGTGCAAAGGA CACATTTATCATATTCATTACAC
2508	Table 3A	Hs.279920	NM_003404	4507948	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide (YWHA <sub>B</sub> ), mRNA /cds=(372,1112)	1	TGATCTGTCCAGTGTCACTCTGTACC CTCAACATATATCCCTTGTGCGAT
2509	Table 3A	Hs.75544	NM_003405	4507950	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide (YWHA <sub>H</sub> ), mRNA /cds=(200,940)	1	AATTCACCCCTCCACCTCTTTCTTC AATTAATGGAAGCGTTAAGGGA
2510	Table 3A	Hs.75103	NM_003408	4507952	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide (YWHA <sub>Z</sub> ), mRNA /cds=(84,821)	1	CTCAGTACTTTGCAGAAAACACAAA CAAAAATGCCATTTAAAAAAGGT
2511	Table 3A	Hs.55481	NM_003447	4508000	zinc finger protein 165 (ZNF165), mRNA /cds=(567,2024)	1	AGCCTTCAGTCAGAGCTCAAACCTTA GTCAACACCAGAGAATTCACATGA
2512	Table 3A	Hs.88219	NM_003454	4508012	zinc finger protein 200 (ZNF200), mRNA /cds=(239,1423)	1	AACCTCTAAGAATACCTGTTTAAAGT CTTGAGTGTGAAAGGAATTTGTT
2513	Table 3A	Hs.62112	NM_003457	4508016	zinc finger protein 207 (ZNF207), mRNA /cds=(202,1638)	1	CCACTGCCTGAAAGGTTTGACAGAT GCATGCCACAGTAGATGTCCACAT
2514	Table 3A	Hs.89414	NM_003467	4503174	chemokine (C-X-C motif), receptor 4 (fusin) (CXCR4), mRNA /cds=(88,1148)	1	TCAGGAGTGGGTTGATTTCAGCACCT ACAGTGACAGCTTGTATTAAGT
2515	Table 3A	Hs.78683	NM_003470	4507856	ubiquitin specific protease 7 (herpes virus-associated) (USP7), mRNA /cds=(199,3507)	1	CCTTCAGTTATACTTTCAATGACCTT TGTGCATCTGTTAAGGCCAAAAACA
2516	Table 3A	Hs.110713	NM_003472	4503248	DEK oncogene (DNA binding) (DEK), mRNA /cds=(33,1160)	1	AAGTGAACAAAATAAGCAACTAAATG AGACCTAATAATTGGCCTTCGATT
2517	Table 3A	Hs.155017	NM_003489	4505454	nuclear receptor interacting protein 1 (NRIP1), mRNA /cds=(287,3763)	1	CACAACCAAATTTGATGCGATCTGCT CAGTAATATAATTTGCCATTTTITA
2518	Table 3A	Hs.28777	NM_003512	4504244	H2A histone family, member L (H2AFL), mRNA /cds=(87,489)	1	ACATTGTAATAGAAACAGATTTCCCA AATTCCAGCCTGGCATGAGGTAAT
2519	literature	Hs.2178	NM_003528	4504276	H2B histone family, member Q (H2BFQ), mRNA /cds=(42,422)	1	CAGACTGAATAGATCTTAAGCTGTCT CTACATGTGTGTTTCAAAATGTGT
2520	Table 3A	Hs.278571	NM_003563	4507182	sortilin-related receptor, L(DLR class) A repeats-containing (SORL1), mRNA /cds=(197,6841)	1	GATATCCAGCGGTGGTACTTCGGA GACACCTGTCTGCATCTGACTGAGC
2521	Table 3A	Hs.2864	NM_003566	4503468	early endosome antigen 1, 162kD (EEA1), mRNA /cds=(136,4368)	1	ACACTTTCCTCTGCCTTTTTCTCTTAT ATGTGGGTTTCATGGTTTCAGTTCCG
2522	Table 3A	Hs.9008	NM_003574	4507866	VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA), mRNA /cds=(0,728)	1	AGATAATGTCACCACTCCTCTTCCTT CACITCTTGTTGTAATTGCAGCCA
2523	literature	Hs.86718	NM_003579	4506396	RAD54 (S.cerevisiae)-like (RAD54L), mRNA /cds=(100,2343)	1	CCGGCACACAGGGACTAGGTCTAGT GAGAACATCAGGAGCAGCCAGGGAT
2524	Table 3A	Hs.78687	NM_003580	4505464	neutral sphingomyelinase (N-SMase) activation associated factor (NSMAF), mRNA /cds=(12,2765)	1	CATCGGGTTTTGGGTGTGTGTTTCA TAGCGTGGTTACTTTCTATAATGC
2525	Table 3A	Hs.14611	NM_003584	4503414	dual specificity phosphatase 11 (RNA/RNP complex 1-interacting) (DUSP11), mRNA /cds=(124,1116)	1	ATGTATTTCTTTCTGACTAGACTTGTG ATATGCGTGTGTTTATGTACAGA
2526	Table 3A	Hs.155976	NM_003588	13270466	cullin 4B (CUL4B), mRNA /cds=(78,2231)	1	GTTCTGTATCAGTTGAATTTTGTGCT CTTTCCCTGTGTACGTGGTGGT
2527	Table 3A	Hs.183874	NM_003589	11140810	cullin 4A (CUL4A), mRNA /cds=(160,2139)	1	CATTTATGAGTTCCATGATATGTGGT CTAAGAAAGACCAACAGATTTCT
2528	Table 3A	Hs.82919	NM_003591	4503162	cullin 2 (CUL2), mRNA /cds=(146,2383)	1	AAATCGGTTGGGTACCATGCTTTTTC TCCCTTCACGTTTGCAAGTTGATG
2529	Table 3A	Hs.14541	NM_003592	4503160	cullin 1 (CUL1), mRNA /cds=(124,2382)	1	GTTTCATGTTGGAAGAATGAAACAA CTTCAAGTTTCATAGGCCAGCCAGCC
2530	Table 3A	Hs.9456	NM_003601	4507074	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5 (SMARCA5), mRNA /cds=(202,3360)	1	TGTCATTTAAAGACATCAGGTTTCATCT GTTTACTGAGCTAGAAACATAGT
2531	Table 3A	Hs.100293	NM_003605	6006036	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase) (OGT), mRNA /cds=(2039,4801)	1	ATCTGGTGCCAAATGAAGATTTTATG GAGTGATTACTAATTATCAAGGGC
2532	Table 3A	Hs.131924	NM_003608	4507420	G protein-coupled receptor 65 (GPR65), mRNA /cds=(0,1013)	1	TTCTGCACTGGGAGGTGTAATACATC ACAAAGACAAAGAAAACGCATACT
2533	Table 3A	Hs.104925	NM_003633	4505460	ectodermal-neural cortex (with BTB-like domain) (ENC1), mRNA /cds=(399,2168)	1	TGTTGAAGGAAAATGTTTCATGTCAT ATGTACTGTTTGTCTATGACTACA

Table 8

2534	db mining	Hs.323879	NM_003639	4504630	cDNA FLJ20586 fis, clone KAT09466, highly similar to AF091453 NEMO protein /cds=UNKNOWN	1	CACTGGGGGAAGTCAAGAATGGGGCC TGGGGCTCTCAGGGAGAACTGCTTC
2535	Table 3A	Hs.146360	NM_003641	4504580	Interferon induced transmembrane protein 1 (9-27) (IFITM1), mRNA /cds=(110,487)	1	CCCTAGATACAGCAGTTTATACCCAC ACACCTGTCTACAGTGTCAITCAA
2536	Table 3A	Hs.167218	NM_003658	6633797	BarH-like homeobox 2 (BARX2), mRNA /cds=(96,935)	1	GAAAGTGCTTAGCTCTCTCCCTCCTG ACCTCTGGGCAGCCAGTCATCAAA
2537	Table 3A	Hs.155172	NM_003664	4501974	adaptor-related protein complex 3, beta 1 subunit (AP3B1), mRNA /cds=(53,3334)	1	ATCATGTATGCAATACTTTCCCCCTTT TGGCTTTGCTAACCAAGAGCAT
2538	Table 3A	Hs.239307	NM_003680	4507946	tyrosyl-tRNA synthetase (YARS), mRNA /cds=(0,1586)	1	CTGCTGTCTCTTCAGTCTGCTCCATC CATCACCATTATCCCATCTCTCA
2539	Table 3A	Hs.82548	NM_003682	4505070	MAP-kinase activating death domain (MADD), mRNA /cds=(325,5091)	1	TATAGAAAATGTACAGTTGTGTGAAT GTGAAATAATGTCTCAACTCCC
2540	literature	Hs.47504	NM_003686	4504368	exonuclease 1 (EXO1), mRNA /cds=(218,2629)	1	GGCCGTGTTCAAAGAGCAATATTCCA GTAAATGCAGACTGCTGCAAGACT
2541	Table 3A	Hs.18571	NM_003690	4505580	protein kinase, interferon-inducible double stranded RNA dependent activator (PRKRA), mRNA /cds=(96,1037)	1	AGCTGCTGACTTGACTGTCATCCTGT TCTTGTAGCCATTGTGAATAAGA
2542	db mining	Hs.296776	NM_003721	4508498	regulatory factor X-associated ankyrin-containing protein (RFXANK), mRNA /cds=(417,1199)	1	GAACTGACTTCAAAGGCAGCTTCTGG ACAGGTGGTGGGAGGGGACCCTTC
2543	Table 3A	Hs.118633	NM_003733	11321576	2'-5'oligoadenylate synthetase-like (OASL), mRNA /cds=(6,1550)	1	GGAGAGGCTCTGTTTCCAGCCAGTTA GTTTTCTCTGGGAGACTTCTCTGT
2544	Table 3A	Hs.5120	NM_003746	4505812	dynein, cytoplasmic, light polypeptide (PIN), mRNA /cds=(93,362)	1	TTTCTATTCCATACTTCTGCCACGTT GTTTTCTCTCAAAATCCATTCT
2545	Table 3A	Hs.57783	NM_003751	4503528	eukaryotic translation initiation factor 3, subunit 9 (eta, 116kD) (EIF3S9), mRNA /cds=(53,2674)	1	CCTGTACACAGCCGAGCAGCATTTCC GTTGAAGGACTTGCATCCCCATTG
2546	Table 3A	Hs.57973	NM_003753	4503522	caspase recruitment domain protein 10 mRNA, complete cds /cds=(40,3138)	1	TTGATGCTTAGTGAATGTGTGCTA ACTTGCTCTCTGACATTAGCAGA
2547	Table 3A	Hs.58189	NM_003756	4503514	eukaryotic translation initiation factor 3, subunit 3 (gamma, 40kD) (EIF3S3), mRNA /cds=(5,1063)	1	AAGAAGTTAACATGAACCTTTGAAGT CACACCAGGGCAACTCTTGAAGA
2548	Table 3A	Hs.192023	NM_003757	4503512	eukaryotic translation initiation factor 3, subunit 2 (beta, 36kD) (EIF3S2), mRNA /cds=(17,994)	1	GGTGGATCTCCAACCAGGCCAGAGA AGATTCTCACAGAAGGTTTTGAAC
2549	Table 3A	Hs.172684	NM_003761	14043025	vesicle-associated membrane protein 8 (endobrevin) (VAMP8), mRNA /cds=(53,355)	1	GGCTGGGAAACTGTTGGTGGCCAGT GGGTAATAAAGACCTTTCAGTATCC
2550	Table 3A	Hs.77608	NM_003769	4506902	splicing factor, arginine/serine-rich 9 (SFRS9), mRNA /cds=(52,717)	1	GGTTCGCTCTACTATGGAGATCAACA GTTACTGTGACTGAGTCGGCCCAT
2551	db mining	Hs.89862	NM_003789	13378136	TNFRSF1A-associated via death domain (TRADD), mRNA /cds=(66,1004)	1	GCTCACACTCAGCGTGGGACCCCGA ATGTTAAGCAATGATAATAAAGTAT
2552	db mining	Hs.251216	NM_003790	4507568	hypothetical protein DKFZp434A196 (DKFZP434A196), mRNA /cds=(168,2732)	1	CTGCTCGCCCTATCGCTCCAGCCAA GGCGAAGAAGCACGAACGAATGTC
2553	Table 3A	Hs.75890	NM_003791	4506774	membrane-bound transcription factor protease, site 1 (MBTPS1), mRNA /cds=(496,3654)	1	ACCTGCCACCATGTTTGTAAATTTGA GGTCTTGATTTCACCATTTGCGGT
2554	Table 3A	Hs.7943	NM_003796	4506542	RPB5-mediating protein (RMP), mRNA /cds=(465,1991)	1	AACGAAAGGAAGTTCTGTTGGAAGCA TCTGAAGAACTGGAAGAGGGTT
2555	db mining	Hs.155566	NM_003805	4503030	CASP2 and RIPK1 domain containing adaptor with death domain (CRADD), mRNA /cds=(37,638)	1	ACATTTACCTGAATGTTGTCTGAGGA CTGAAGTGTGGACTTTACTATTCA
2556	Table 3A	Hs.87247	NM_003806	4504492	harakiri, BCL2-interacting protein (contains only BH3 domain) (HRK), mRNA /cds=(120,395)	1	AAATCCAGCTGCAGAAACAGACACCC CAATGCTATTTACATACAGCTCTA
2557	literature	Hs.54673	NM_003808	4507598	tumor necrosis factor (ligand) superfamily, member 13 (TNFSF13), mRNA /cds=(281,1033)	1	CCCCGTTCTCTCACTTTTCCCTTTTCAT TCCCACCCCTAGACTTTGATTT
2558	literature	Hs.26401	NM_003809	4507596	tumor necrosis factor (ligand) superfamily, member 12 (TNFSF12), mRNA /cds=(17,766)	1	TTCAGGCACTAAGAGGGGCTGGACC TGGCGGCAGGAAGCCAAAGAGACTG
2559	literature	Hs.83429	NM_003810	4507592	tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10), mRNA /cds=(87,932)	1	CGCAACAATCCATCTCTCAAGTAGTG TATCAGAGTAGAGCCTCCAGGTT
2560	literature	Hs.1524	NM_003811	4507608	tumor necrosis factor (ligand) superfamily, member 9 (TNFSF9), mRNA /cds=(3,767)	1	CCCAGGCTAGGGGGCTATAGAAACA TCTAGAAATAGACTGAAAGAAATC
2561	Table 3A	Hs.2442	NM_003816	4501914	a disintegrin and metalloproteinase domain 9 (meltrin gamma) (ADAM9), mRNA /cds=(78,2537)	1	ACCTACAAAAAGTTACTGTGGTATC TATGAGTTATCATCTTAGCTGTGT



Table 8

2562	literature	Hs.279899	NM_003820	4507570	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) (TNFRSF14), mRNA /cds=(293,1144)	1	TGGTGTTTAGTGGATACCACATCGGA AGTGATTTTCTAAATTGGATTGTA
2563	db mining	Hs.86131	NM_003824	4505228	Fas (TNFRSF6)-associated via death domain (FADD), mRNA /cds=(129,755)	1	TCACTATCTTTCTGATAACAGAATTGC CAAGGCAGCGGATCTCGTATCT
2564	literature	Hs.114676	NM_003839	4507564	tumor necrosis factor receptor superfamily, member 11a, activator of NFKB (TNFRSF11A), mRNA /cds=(38,1888)	1	GAAAAGATGGAGAAAATGAACAGGAC ATGGGGCTCCTGGAAAGAAAGGGC
2565	literature	Hs.129844	NM_003840	4507562	tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain (TNFRSF10D), mRNA /cds=(82,1242)	1	GTGGTTTTAGGATGTCATTCTTTGCA GTTCTTCATCATGAGACAAGTCTT
2566	literature	Hs.119684	NM_003841	10835042	tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain (TNFRSF10C), mRNA /cds=(29,928)	1	AAGGGTGAGGATGAGAAGTGGTCAC GGGATTTATTACGCCCTTGGTCAGAG
2567	literature	Hs.249190	NM_003844	4507558	tumor necrosis factor receptor superfamily, member 10a (TNFRSF10A), mRNA /cds=(0,1408)	1	GAGAAGATTCCAGGACCTCTTGGTGGG CTCTGGAAAGTTCTACTACTTAGA
2568	Table 3A	Hs.7043	NM_003849	11321580	succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA /cds=(31,1032)	1	AGTACAACCTGGAAGCCAAAACAAGGT GGAAGATGTCCTGAATTAGACGT
2569	Table 3A	Hs.5085	NM_003859	4503362	dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit (DPM1), mRNA /cds=(0,782)	1	GTTGCTGGCCTAATGAGCAATGTTCT CAATTTTCGTTTTTCATTTTGCTGT
2570	Table 3A	Hs.153687	NM_003866	4504706	inositol polyphosphate-4-phosphatase, type II, 105kD (INPP4B), mRNA /cds=(121,2895)	1	ACAGACCTCCAGAGGGGACTTATGG AAAAGCTGACACCTAAGTTTACCAA
2571	Table 3A	Hs.1742	NM_003870	4506786	IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA /cds=(467,5440)	1	TGAATTTACTTCTCCCAAGAGTTTG GACTGCCCGTCAGATTGTTTCTGC
2572	Table 3A	Hs.279789	NM_003883	13128861	histone deacetylase 3 (HDAC3), mRNA /cds=(55,1341)	1	TGGCTTTATGTCCATTTTACCAGTGT TTTATCCAATAAACTAAGTCGGT
2573	Table 3A	Hs.76095	NM_003897	4503328	immediate early response 3 (IER3), mRNA /cds=(11,481)	1	GCTGTCACGGAGCGACTGTCGAGAT CGCCTAGTATGTTCTGTGAACACAA
2574	Table 3A	Hs.7165	NM_003904	4508020	zinc finger protein 259 (ZNF259), mRNA /cds=(28,1407)	1	CCTTTAAGGTTGGAACCTTTGAAGTTG GAGAAGGTGGAATAAAGTTACACC
2575	Table 3A	Hs.61828	NM_003905	4502168	amyloid beta precursor protein-binding protein 1, 59kD (APBP1), mRNA /cds=(73,1677)	1	TGCCCTTCGGGTTGTGCTTTAGTCTGT AAAATTTCTAAGGAGAGCTGCTAA
2576	Table 3A	Hs.8991	NM_003917	4503842	adaptor-related protein complex 1, gamma 2 subunit (AP1G2), mRNA /cds=(45,2402)	1	GCAAAAACCTGGGACCAGCCCCCTT CTCCCAAAAATAAGCCCAATAAAG
2577	Table 3A	Hs.58589	NM_003918	5453673	glycogenin 2 (GYG2), mRNA /cds=(283,1788)	1	GTCATCGGCTTTTCAGAGGGGAGACCA CGGGAATGTTTCAGGGAAACAATGTC
2578	Table 3A	Hs.306359	NM_003922	4557025	clone 25038 mRNA sequence /cds=UNKNOWN	1	TGAATTCGCTGTTTCAGGGTTCTTAT GCAGAGAAATAAAGCAGATTTCAGG
2579	literature	Hs.35947	NM_003925	4505120	methyl-CpG binding domain protein 4 (MBD4), mRNA /cds=(176,1918)	1	ACCAACCACCTTTCCAGCCATAGAGA TTTTAATTAGCCCAACTAGAAGCC
2580	literature	Hs.194685	NM_003935	4507634	topoisomerase (DNA) III beta (TOP3B), mRNA /cds=(113,2701)	1	CTACTTTGTATGATGACCTGTCTCCTC CCTCACCCAGGCTGCAGTGCCATG
2581	Table 3A	Hs.169139	NM_003937	4504936	kynureninase (L-kynurenine hydrolase) (KYNU), mRNA /cds=(106,1503)	1	AAAGAGGAGTGGTTTGTGACAAGCG GAATCCAAATGGCATTTCGAGTGCT
2582	Table 3A	Hs.24322	NM_003945	4502318	ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) 9kD (ATP6H), mRNA /cds=(62,307)	1	GAAGAGCCATCTCAACAGAATCGCAC CAAACCTACTTTTCAGGATGAATT
2583	Table 3A	Hs.47007	NM_003954	4505396	mitogen-activated protein kinase kinase kinase 14 (MAP3K14), mRNA /cds=(232,3075)	1	TCTGGGTTGTAGAGAACTCTTTGTAA GCAATAAAGTTTGGGGTGATGACA
2584	literature	Hs.24439	NM_003958	4504866	ring finger protein (C3HC4 type) 8 (RNF8), mRNA /cds=(112,1569)	1	CTGCTGTCCACTTTCTTCAGGCTCT GTGAATACTTCAACCTGCTGTGAT
2585	Table 3A	Hs.108371	NM_003973	4506600	E2F transcription factor 4, p107/p130-binding (E2F4), mRNA /cds=(62,1303)	1	GCACCTGCTCCAAAGGCATCTGGCA AGAAAGCATAAGTGGAATCATAAA
2586	Table 3A	Hs.10315	NM_003983	4507052	solute carrier family 7 (cationic amino acid transporter, y <sup>+</sup> system), member 6 (SLC7A6), mRNA /cds=(261,1808)	1	CTCCTTTTAACTGTTATTGACAAACC TCCCCAAAAGAAATATGCAATTGT
2587	Table 3A	Hs.339840	NM_003992	4502884	Homo sapiens, clone MGC:16360 IMAGE:3927645, mRNA, complete cds /cds=(581,731)	1	AGCTGCCAGAAAGCACAGATTTGACC CAAGCTATTTATATGTTATAAAGT
2588	Table 3A	Hs.83428	NM_003998	10835176	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (p105) (NFKB1), mRNA /cds=(397,3303)	1	AGCTGCTGCTGGATCACAGCTGCTTT CTGTTGTCATTGCTGTTGTCCTC
2589	literature	Hs.278443	NM_004001	4557021	Fc fragment of IgG, low affinity IIb, receptor for (CD32) (FCGR2B), mRNA /cds=(0,875)	1	GATGAGGCTGACAAAGTTGGGGCTG AGAACAACATCACCTATTCACTTCT



Table 8

2590	Table 3A	Hs.12068	NM_004003	4755131	camitine acetyltransferase (CRAT), nuclear gene encoding mitochondrial protein, transcript variant peroxisomal, mRNA /cds=(296,2113)	1	TCCTGCCCGCCCTGCTGTATGATA TTAATGTGGAAGGTCATCAATAAA
2591	Table 3A	Hs.169470	NM_004010	5032314	dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427p2, mRNA /cds=(702,11390)	1	AAACTGTAAATCATAATGTAAGTAA GCATAAACATCACATGGCATGTTT
2592	Table 3A	Hs.460	NM_004024	4755127	activating transcription factor 3 (ATF3), mRNA /cds=(164,520)	1	ACAAGGACGCTGGCTACTGTCTATTA AAATTCTGATGTTTCTGTGAAATT
2593	Table 3A	Hs.166120	NM_004031	4809287	interferon regulatory factor 7 (IRF7), transcript variant d, mRNA /cds=(335,1885)	1	CTTCCTTATGGAGCTGGAGCAGCCC GCCTAGAACCCAGTCTAATGAGAAC
2594	Table 3A	Hs.78637	NM_004034	4809278	annexin A7 (ANXA7), transcript variant 2, mRNA /cds=(60,1526)	1	TGCATCTCATTTTGCCTAAATTGGTTC TGATTTCTAAACACTTTCCACA
2595	Table 3A	Hs.217493	NM_004039	4757755	annexin A2 (ANXA2), mRNA /cds=(49,1088)	1	AGTGAAGTCTATGATGTGAAACACTT TGCCCTCTGTGACTGTGTCTATAA
2596	Table 3A	Hs.227817	NM_004049	14574570	BCL2-related protein A1 (BCL2A1), mRNA /cds=(183,710)	1	TTGATGATGTAACCTTGACCTTCCAGA GTTATGGAATTTTGTCCCATCTGT
2597	Table 3A	Hs.155935	NM_004054	4757887	complement component 3a receptor 1 (C3AR1), mRNA /cds=(0,1448)	1	AGCTCACAGTTCACCCCACTGTCCC TCAAACAATGTCAATTCAGAAAGA
2598	Table 3A	Hs.153640	NM_004073	4758015	cytokine-inducible kinase (CNK), mRNA /cds=(36,1859)	1	GGACCACTTTTATTTATTGTGAGACA CTTATTTATTGGGATGTGAGCCCC
2599	Table 3A	Hs.108080	NM_004078	4758085	cysteine and glycine-rich protein 1 (CSR1), mRNA /cds=(54,635)	1	GGGCTGTACCAAGCTGATTTCTCAT CTGGTCAATAAAGCTGTTTAGACC
2600	literature	Hs.76394	NM_004092	12707569	enoyl Coenzyme A hydratase, short chain, 1, mitochondrial (ECHS1), nuclear gene encoding mitochondrial protein, mRNA /cds=(71,943)	1	GCTCTGAGGGAAACGCTGTCTGCTG CCTTCATACAGATGCTGATTAAAGT
2601	literature	Hs.4758	NM_004111	8325465	chromosome 11, BAC CIT-HSP-311e8 (BC269730) containing the hFEN1 gene /cds=(2644,3786)	1	TTTTAGCTCAGGAAAATATGTCAGGC TCAAACCACTTCTCAGGCAGTTTA
2602	Table 3A	Hs.171862	NM_004120	6996011	guanylate binding protein 2, interferon-inducible (GBP2), mRNA /cds=(156,1931)	1	TTGTTGAACCATAAAGTTTGCAAAGT AAAGGTTAAGTATGAGGTCAATGT
2603	Table 3A	Hs.284265	NM_004124	4758441	pRGR1 mRNA, partial cds /cds=(0,538)	1	TGTGGTTTCAGTCTCTGCTAGTTCAT ATTGCATGTTTATTTGGACAGTC
2604	Table 3A	Hs.3069	NM_004134	4758569	heat shock 70kD protein 9B (mortalin-2) (HSPA9B), mRNA /cds=(29,2068)	1	AGCAGAAATTTGAAGCCAGAAAGGAC AACATATGAAGCTTAGGAGTGAAG
2605	Table 3A	Hs.80350	NM_004156	4758951	protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform (PPP2CB), mRNA /cds=(21,950)	1	ACTGCTTCATCTCCTTTTGGCCTTATT TGGAATTTTAGTTATAGTGT
2606	Table 3A	Hs.180062	NM_004159	4758969	proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional protease 7) (PSMB8), mRNA /cds=(220,1038)	1	GAGAGAGTACGGGCTCAGCAGCCAG AGGAGGCCGGTGAAGTGCATCTTCT
2607	Table 3A	Hs.272493	NM_004166	14589962	small inducible cytokine subfamily A (Cys-Cys), member 15 (SCYA15), transcript variant 2, mRNA /cds=(474,815)	1	CCCAGTCACCCCTCTTGGAGCTTCCCT GCTTTGAATTAAGACCACTCATG
2608	Table 3A	Hs.272493	NM_004167	14602450	small inducible cytokine subfamily A (Cys-Cys), member 15 (SCYA15), transcript variant 2, mRNA /cds=(474,815)	1	CCCAGTCACCCCTCTTGGAGCTTCCCT GCTTTGAATTAAGACCACTCATG
2609	Table 3A	Hs.469	NM_004168	4759079	succinate dehydrogenase complex, subunit A, flavoprotein (Fp) (SDHA), nuclear gene encoding mitochondrial protein, mRNA /cds=(24,2018)	1	GGAGCGTGGCACTTACCTTTGTCCCT TGCTTCATCTTGTGAGATGATAA
2610	Table 3A	Hs.75379	NM_004172	4759125	solute carrier family 1 (glial high affinity glutamate transporter), member 3 (SLC1A3), nuclear gene encoding mitochondrial protein, mRNA /cds=(178,1806)	1	GCATACACATGCACCTCAGTGTGGACT GGGAAGCATTACTTTGTAGATGTA
2611	Table 3A	Hs.172791	NM_004182	4759297	ubiquitously-expressed transcript (UXT), mRNA /cds=(56,529)	1	AAGCCTCACCATTGACTTCTTCCCCC CATCCTCAGACATTAAGAGCCTG
2612	literature	Hs.212680	NM_004195	4759245	tumor necrosis factor receptor superfamily, member 18 (TNFRSF18), mRNA /cds=(0,725)	1	CTGACCTCGGCCAGCTTGACGTGC ACATCTGGCAGCTGAGGAGTCACTG
2613	Table 3A	Hs.18720	NM_004208	4757731	programmed cell death 8 (apoptosis-inducing factor) (PDCD8), mRNA /cds=(42,1883)	1	GGAAGATCATTAAGGACGGTGAGCA GCATGAAGATCTCAATGAAGTAGCC
2614	Table 3A	Hs.79197	NM_004233	4757945	CD83 antigen (activated B lymphocytes, immunoglobulin superfamily) (CD83), mRNA /cds=(41,658)	1	TTACCTCTGTCTTGGCTTTCATGTTAT TAAACGTATGCATGTGAAGAAGG
2615	RG housekeeping genes	Hs.6566	NM_004237	11321606	thyroid hormone receptor interactor 13 (TRIP13), mRNA /cds=(45,1343)	1	AGTTACTGGTCTCTTCTGCCGAATG TTATGTTTGTCTTTATCTCACAG

Table 8

2616	Table 3A	Hs.85092	NM_004239	10863904	thyroid hormone receptor interactor 11 (TRIP11), mRNA /cds=(356,6295)	1	CACAAAGTGGCCTTTGGGGAGAAAG
2617	Table 3A	Hs.151787	NM_004247	4759279	U5 snRNP-specific protein, 116 kD (U5-116KD), mRNA /cds=(60,2978)	1	ATTTACTCCAAAGCTCTTCCCCAGCT
2618	Table 3A	Hs.184276	NM_004252	4759139	solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 1 (SLC9A3R1), mRNA /cds=(212,1288)	1	ACCACAGTCCCTTACTCTGTTCT
2619	literature	Hs.31442	NM_004260	4759029	RecQ protein-like 4 (RECQL4), mRNA /cds=(0,3626)	1	GCCCATCCCTGAGCCAGGTACCACC
2620	Table 3A	Hs.90608	NM_004261	4759095	15 kDa selenoprotein (SEP15), mRNA /cds=(4,492)	1	ATTGTAAGAAACATTTTCAGAAAT
2621	Table 3A	Hs.15259	NM_004281	14043023	BCL2-associated athanogene 3 (BAG3), mRNA /cds=(306,2033)	1	AGGACCGACGCTTCTGGAGAAAATAC
2622	Table 3A	Hs.341182	NM_004288	8670550	602417256F1 cDNA, 5' end /clone=IMAGE:4536829 /clone_end=5'	1	CTGCACCTGAGCTTCCATGCCCTG
2623	Table 3A	Hs.75393	NM_004300	4757713	acid phosphatase 1, soluble (ACP1), transcript variant a, mRNA /cds=(775,1251)	1	TTACACAAAGATTTGCGTTAATGAAGA
2624	Table 3A	Hs.274350	NM_004301	4757717	BAF53 (BAF53A), mRNA /cds=(136,1425)	1	CTACACAGAAAACCTTCTAGGGA
2625	Table 3A	Hs.109918	NM_004310	4757769	ras homolog gene family, member H (ARHH), mRNA /cds=(579,1154)	1	ATACCTGACTTTAGAGAGAGTAAAT
2626	Table 3A	Hs.75811	NM_004315	4757785	N-acylsphingosine amidohydrolase (acid ceramidase) (ASAH), mRNA /cds=(17,1204)	1	GTGCCAGGAGCCATAGGAATATCT
2627	literature	Hs.234799	NM_004327	11038638	breakpoint cluster region (BCR), transcript variant 1, mRNA /cds=(488,4303)	1	ATGGAAGATGTGGTCTGAGATGGGT
2628	db mining	Hs.2534	NM_004329	4757853	bone morphogenetic protein receptor, type IA (BMPRI1A), mRNA /cds=(308,1907)	1	GCTGCAAAGATCATAATAAAGTCA
2629	literature	Hs.82794	NM_004344	4757901	centrin, EF-hand protein, 2 (CETN2), mRNA /cds=(47,565)	1	ACATCCAGAAAAGGACACTTGTAT
2630	Table 3A	Hs.170019	NM_004350	4757917	nunt-related transcription factor 3 (RUNX3), mRNA /cds=(9,1256)	1	GCTAGTCTATGGTCAGTTGAGGAA
2631	Table 3A	Hs.84298	NM_004355	10835070	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated) (CD74), mRNA /cds=(7,705)	1	TTGACTAGTAAAAGTTACTGCCTAGT
2632	Table 3A	Hs.75564	NM_004357	4757941	CD151 antigen (CD151), mRNA /cds=(84,845)	1	CTTTTACCTTAGGCTTACAGAAT
2633	Table 3A	Hs.75887	NM_004371	6996002	coatamer protein complex, subunit alpha (COPA), mRNA /cds=(466,4140)	1	TTGCCCAGGCCAGTTAGAAAATCCCT
2634	Table 3A	Hs.79194	NM_004379	4758053	cAMP responsive element binding protein 1 (CREB1), mRNA /cds=(116,1099)	1	TGGGGAAGCTGTGATGAATATTTCCA
2635	Table 3A	Hs.23598	NM_004380	4758055	CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP), mRNA /cds=(198,7526)	1	ATAATCACAGTTGTGTCTGACACT
2636	Table 3A	Hs.76053	NM_004396	13514826	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 5 (RNA helicase, 68kD) (DDX5), mRNA /cds=(170,2014)	1	CAATAACAGTCACTGGAAAGAGT
2637	Table 3A	Hs.155595	NM_004404	4758157	neural precursor cell expressed, developmentally down-regulated 5 (NEDD5), mRNA /cds=(258,1343)	1	GTGAACTCCTGCACTGGCATTGGAT
2638	Table 3A	Hs.171695	NM_004417	7108342	dual specificity phosphatase 1 (DUSP1), mRNA /cds=(248,1351)	1	GTGTGTTAATGCTATTTGTTTTGT
2639	Table 3A	Hs.1183	NM_004418	12707563	dual specificity phosphatase 2 (DUSP2), mRNA /cds=(85,1029)	1	GCTGGGTGGAAACTGCTTTGGCACTAT
2640	Table 3A	Hs.2128	NM_004419	12707565	dual specificity phosphatase 5 (DUSP5), mRNA /cds=(210,1364)	1	CGTTTGCTTGGTGTGTTGTTTTAA
2641	Table 3A	Hs.74088	NM_004430	4758251	early growth response 3 (EGR3), mRNA /cds=(357,1520)	1	GCTTGTATCAGCTTTCAGGGCCATG
2642	Table 3A	Hs.55921	NM_004448	4758293	glutamyl-prolyl-HRNA synthetase (EPRS), mRNA /cds=(58,4380)	1	GTTACATTAGAATAAAAGGTAGT
2643	Table 3A	Hs.48876	NM_004462	4758349	farnesyl-diphosphate farnesyltransferase 1 (FDF1), mRNA /cds=(44,1297)	1	CTTTGCCTTGACGCCACATGGCCCCA
2644	Table 3A	Hs.76382	NM_004492	4758485	general transcription factor IIA, 2 (12kD subunit) (GTF2A2), mRNA /cds=(141,470)	1	TCCCAGTTGGGGAGCCAGGTGAG
2645	Table 3A	Hs.103804	NM_004501	14141160	heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A) (HNRPU), transcript variant 1, mRNA /cds=(217,2691)	1	TGCGGGTTATTGATTGTCTTTACAA
2646	db mining	Hs.171545	NM_004504	7262381	HIV-1 Rev binding protein (HRB), mRNA /cds=(243,1931)	1	CTATTGTTCTCATATTTCTCA

Table 8

2647	literature	Hs.152983	NM_004507	4758575	HUS1 (S. pombe) checkpoint homolog (HUS1), mRNA /cds=(60,902)	1	TACTGGTAGATGTGCTCATTCTCCCT GAAACATACCCATCATATTGTCCT
2648	Table 3A	Hs.38125	NM_004510	4758587	Interferon-induced protein 75, 52kD (IFI75), mRNA /cds=(170,1396)	1	AGGAAGCAATGTGGTTGGACCTGGTT AAGGGAAGGCTGATTACGGAAAT
2649	Table 3A	Hs.75117	NM_004515	4758601	Interleukin enhancer binding factor 2, 45kD (ILF2), mRNA /cds=(39,1259)	1	AACTAATACCTTGTCTGTTGAAATGTTG TGAATGTAAAGTGTCTGGAAAT
2650	Table 3A	Hs.6186	NM_004517	4758605	integrin-linked kinase (ILK), mRNA /cds=(156,1514)	1	GAGCTTTGTCACTTGCCACATGGTGT CTTCCAACATGGGAGGGATCAGCC
2651	db mining	Hs.111301	NM_004530	11342665	matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase) (MMP2), mRNA /cds=(289,2271)	1	CCCTGTTCACTCTACTTAGCATGTCC CTACCGAGTCTCTTCTCACTGGA
2652	Table 3A	Hs.198271	NM_004544	4758767	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10 (42kD) (NDUFA10), mRNA /cds=(21,1088)	1	TGCACATTGTTTTCTTCTGACTTCCA GAAATAAAAGTGTTCCATGGGA
2653	Table 3A	Hs.173611	NM_004550	4758785	NADH dehydrogenase (ubiquinone) Fe-S protein 2 (49kD) (NADH-coenzyme Q reductase) (NDUFS2), mRNA /cds=(6,1397)	1	ACTAAAAAGGAGAAATTATAATAAAT TAGCCGCTTTCGCCCCCTAGGCC
2654	Table 3A	Hs.80595	NM_004552	4758789	NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase) (NDUFS5), mRNA /cds=(71,391)	1	ACGACAAACCTCCTTGTCAAAGTGTG TAAAAATAAGGATTGCTCCATCC
2655	Table 3A	Hs.91640	NM_004556	4758805	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon (NFKBIE), mRNA /cds=(33,1535)	1	CCACTGGGGAAGGGAAGTTTCAGTA ACATGACACTAAATGGCAGAGACG
2656	Table 3A	Hs.74497	NM_004559	4758829	nuclease sensitive element binding protein 1 (NSEP1), mRNA /cds=(234,1202)	1	AAAGATTGGAGCTGAAGACCTAAAGT GCTTGCTTTTGCCTGTTGACCAG
2657	Table 3A	Hs.158225	NM_004571	4758929	PBX/knotted 1 hoemobox 1 (PKNOX1), mRNA /cds=(85,1392)	1	GAAGTCAGTGGGAAACACAGAAAT TTATTTAAATCTTTTCAGGAGCT
2658	Table 3A	Hs.7688	NM_004576	4758953	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), beta isoform (PPP2R2B), mRNA /cds=(525,1858)	1	AGATGTATTAGAAGTCTGACTTTCA AGTGTAATTTGCTTTGGAGGAGGA
2659	literature	Hs.240457	NM_004584	4759021	RAD9 (S. pombe) homolog (RAD9), mRNA /cds=(76,1251)	1	CTGTGCAGAAAGAGCTGCCAGGCAGT GTCTTAGATGTGACAGCGAGGCCAT
2660	Table 3A	Hs.75498	NM_004591	4759075	small inducible cytokine subfamily A (Cys-Cys), member 20 (SCYA20), mRNA /cds=(58,348)	1	ACATCATGGAGGGTTTAGTGCTTATC TAATTTGTGCCTCACTGGACTTGT
2661	Table 3A	Hs.30035	NM_004593	4759097	splicing factor, arginine/serine-rich (transformer 2 Drosophila homolog) 10 (SFRS10), mRNA /cds=(121,987)	1	TTGCTTACCAAAGGAGGCCCAATTTTC ACTCAAATGTTTTGAGAATAATG
2662	Table 3A	Hs.53125	NM_004597	7242206	small nuclear ribonucleoprotein D2 polypeptide (16.5kD) (SNRPD2), mRNA /cds=(30,386)	1	TCACTCCTCTGCTCATGAAGACCGC TGCCATTGGTGTGAGAATAATAA
2663	literature	Hs.91175	NM_004618	10835217	topoisomerase (DNA) III alpha (TOP3A), mRNA /cds=(177,3182)	1	GTTAAGCCAGGACATCCAGAATTCAT TGCTTTAATAAGAACCCAGGCCG
2664	Table 3A	Hs.75066	NM_004622	4759269	translin (TSN), mRNA /cds=(81,767)	1	TCAGTTTAAACAATGCTATTAAAGTG GAGAAGCACACTCTGGTCTTGGA
2665	db mining	Hs.320	NM_004628	4759331	xeroderma pigmentosum, complementation group C (XPC), mRNA /cds=(191,2662)	1	CTCACTGCCTCTTTCGCTAGGGGAG AGAGCAGAGAAGTACAGTCACT
2666	literature	Hs.8047	NM_004629	4759335	Fanconi anemia, complementation group G (FANCG), mRNA /cds=(492,2360)	1	TTGACTTTGCTCGAGGCACCTTTTTT CCTGTTTCTCTTTCTGTTGTCG
2667	Table 3A	Hs.159627	NM_004632	4758117	death associated protein 3 (DAP3), mRNA /cds=(73,1269)	1	AAATGGGTTTCACTGTGAATGCGTGA CAATAAGATATTCCTTTGTTCTTA
2668	Table 3A	Hs.237955	NM_004637	13794266	mRNA for RAB7 protein /cds=(602,1225)	1	AACGAATTTCTGAACCTATCAAACCT GGACAAGAATGACCGGGCCAAGGC
2669	Table 3A	Hs.25911	NM_004638	4758107	HLA-B associated transcript 2 (BAT2), mRNA /cds=(101,6529)	1	CTTCCCTGGTCCCTGTCCCTGGG GCTGTTTGTTAAAAAGAGTAATAA
2670	Table 3A	Hs.966	NM_004645	4758023	coilin (COIL), mRNA /cds=(22,1752)	1	ACCGTGAAATTTGGTTTCATTTAACAA AAGATCAGATCCCTCCTTCAGCT
2671	Table 3A	Hs.77578	NM_004652	11641424	ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), transcript variant 1, mRNA /cds=(59,7750)	1	TTTCTTGTACACCCACTGCACTCTG CAACCACTGTTGCCTGCCTCATGG
2672	Table 3A	Hs.80358	NM_004653	4759149	SMC (mouse) homolog, Y chromosome (SMCY), mRNA /cds=(275,4894)	1	GGGAAAAACAAGAAATTCATGACTCT ACCTGTGGTCTATCTTTAATTCA
2673	Table 3A	Hs.121102	NM_004665	4759313	vanin 2 (VNN2), mRNA /cds=(11,1573)	1	GCTGTGCCCTTGAAGAGAATAGTAAT GATGGGAATTAGAGGTTTATGAC
2674	Table 3A	Hs.6856	NM_004674	4757789	ash2 (absent, small, or homeotic, Drosophila, homolog)-like (ASH2L), mRNA /cds=(4,1890)	1	TCCAAGGAAATGGTAACCTGTTTCTG AGAACACCTGAATCAATGGCTAT
2675	Table 3A	Hs.155103	NM_004681	4758253	eukaryotic translation initiation factor 1A, Y chromosome (EIF1AY), mRNA /cds=(132,566)	1	TTCAATGTAATCCACTGTTTTGGCTTT CATGAACAAGTAAATACAGTGT

Table 8

2676	Table 3A	Hs.54483	NM_004688	4758813	N-myc (and STAT) interactor (NMI), mRNA /cds=(280,1203)	1	ACTTATTTCATGTTTCTGAATCTTCT
2677	Table 3A	Hs.5097	NM_004710	4759201	synaptogyrin 2 (SYNGR2), mRNA /cds=(29,703)	1	TTGTTTCAAATGGTGCTGCATGT
2678	Table 3A	Hs.40323	NM_004725	4757879	BUB3 (budding uninhibited by benzimidazoles 3, yeast) homolog (BUB3), mRNA /cds=(70,1056)	1	ATGCCCGGCTGGGATGCTGTTTGG
2679	Table 3A	Hs.77324	NM_004730	4759033	eukaryotic translation termination factor 1 (ETF1), mRNA /cds=(135,1448)	1	AGACGGAATAAATGTTTTCTCATTC
2680	Table 3A	Hs.326159	NM_004735	4758689	leucine rich repeat (in FLII) interacting protein 1 (LRRFIP1), mRNA /cds=(178,2532)	1	TACTCTAAACCTGTTATTTCTGTGCTA
2681	Table 3A	Hs.333513	NM_004757	4758265	small inducible cytokine subfamily E, member 1 (endothelial monocyte-activating) (SCYE1), mRNA /cds=(49,987)	1	ATAAACGAGATGCAGAACCCCTTG
2682	Table 3A	Hs.9075	NM_004760	4758191	serine/threonine kinase 17a (apoptosis-inducing) (STK17A), mRNA /cds=(117,1381)	1	TGCAGAGAGATACTAAGCAGCAAAAT
2683	Table 3A	Hs.170160	NM_004761	4758531	RAB2, member RAS oncogene family-like (RAB2L), mRNA /cds=(0,2333)	1	CTTGGTGTGTGATGTACAGAAAT
2684	Table 3A	Hs.1050	NM_004762	4758963	pleckstrin homology, Sec7 and coiled/coiled domains 1 (cytohesin 1) (PSCD1), transcript variant 1, mRNA /cds=(69,1265)	1	AGTCTTTGATCTTGAACCGATACTTTT
2685	Table 3A	Hs.11482	NM_004768	4759099	splicing factor, arginine/serine-rich 11 (SFRS11), mRNA /cds=(83,1537)	1	GGATCTCATTTGTGATATACCTG
2686	Table 3A	Hs.15589	NM_004774	4759265	PPAR binding protein (PPARBP), mRNA /cds=(235,4935)	1	TGGAATCAAATAAATGCTTCCACTA
2687	Table 3A	Hs.26703	NM_004779	4758945	CCR4-NOT transcription complex, subunit 8 (CNOT8), mRNA /cds=(244,1122)	1	CCTTACACACAAAGGCTCAGT
2688	Table 3A	Hs.23985	NM_004790	4759041	solute carrier family 22 (organic anion transporter), member 6 (SLC22A6), mRNA /cds=(0,1652)	1	TCCTTACACACAAAGGCTCAGT
2689	Table 3A	Hs.77985	NM_004792	4758105	peptidyl-prolyl isomerase G (cyclophilin G) (PPIG), mRNA /cds=(157,2421)	1	CTTCCCAGGATCAAGGCCACAGGG
2690	Table 3A	Hs.28757	NM_004800	4758873	transmembrane 9 superfamily member 2 (TM9SF2), mRNA /cds=(133,2124)	1	AGGAAGATTGCACGGGCACGTGTTCT
2691	Table 3A	Hs.49587	NM_004811	4758669	leupaxin (LPXN), mRNA /cds=(93,1253)	1	CTTGTAACACTAGCCCAAGGAAGTGC
2692	Table 3A	Hs.168103	NM_004818	4759277	prp28, U5 snRNP 100 kd protein (U5-100K), mRNA /cds=(39,2501)	1	AGCAAAATAAATCTCAACTCTGCCC
2693	Table 3A	Hs.3628	NM_004834	4758523	mitogen-activated protein kinase kinase kinase 4 (MAP4K4), mRNA /cds=(79,3576)	1	TGTGCAGTAGAAACAAAGTAGGCTA
2694	Table 3A	Hs.102506	NM_004836	4758891	eukaryotic translation initiation factor 2-alpha kinase 3 (EIF2AK3), mRNA /cds=(72,3419)	1	CAGTCTGTGCCATGTTGATGTACA
2695	Table 3A	Hs.227808	NM_004841	4758807	RAS protein activator like 2 (RASAL2), mRNA /cds=(125,3544)	1	AGGAGGGTTTAAATAGGGTTCAGAGA
2696	db mining	Hs.76364	NM_004847	6680470	allograft inflammatory factor 1 (AIF1), transcript variant 2, mRNA /cds=(453,851)	1	TCATAGGAATATTAGGAGTTACCT
2697	Table 3A	Hs.10649	NM_004848	4758579	basement membrane-induced gene (ICB-1), mRNA /cds=(128,982)	1	TGGTGGAGTAAAAAAGTGGTAACCTA
2698	Table 3A	Hs.274472	NM_004850	6633807	high-mobility group (nonhistone chromosomal) protein 1 (HMG1), mRNA /cds=(52,699)	1	CTCAAGTGAATGAATGGTCTTGCA
2699	Table 3A	Hs.178710	NM_004859	4758011	clathrin, heavy polypeptide (Hc) (CLTC), mRNA /cds=(172,5199)	1	GCAGGAAAGGGAAACAGACGCGACA
2700	Table 3A	Hs.76507	NM_004862	4758913	LPS-induced TNF-alpha factor (PIG7), mRNA /cds=(233,919)	1	GCAACAAGAGCAGCAAGAAGTATG
2701	Table 3A	Hs.59403	NM_004863	4758667	serine palmitoyltransferase, long chain base subunit 2 (SPTLC2), mRNA /cds=(188,1876)	1	TCCATTCTGTTTCGGATTTAAGTTTG
2702	Table 3A	Hs.5409	NM_004875	4759045	RNA polymerase I subunit (RPA40), mRNA /cds=(22,1050)	1	AGAGACTTGCCTAATGAATCTCCT
2703	Table 3A	Hs.86371	NM_004876	4758513	zinc finger protein 254 (ZNF254), mRNA /cds=(134,1195)	1	CCTTCAGAAACACCGTAATTCTAAAT
2704	Table 3A	Hs.75258	NM_004893	4758495	H2A histone family, member Y (H2AFY), mRNA /cds=(173,1288)	1	AAACCTCTTCCCATACACCTTTCC
2705	Table 3A	Hs.80426	NM_004899	4757871	brain and reproductive organ-expressed (TNFRSF1A modulator) (BRE), mRNA /cds=(146,1297)	1	CTGGACAACCTTTGAGTACTGACATCA
2706	Table 3A	Hs.145696	NM_004802	4757925	splicing factor (CC1.3) (CC1.3), mRNA /cds=(149,1723)	1	TTGATAAATAAAGTGGCTGTGGT

Table 8

2707	Table 3A	Hs.119	NM_004906	4758635	Wilms' tumour 1-associating protein (KIAA0105), mRNA /cds=(124,579)	1	GGGGAATGTGTTCCCTTCATTGTATTT GGGCCTTTTGTATTGCACCTCTTGA
2708	Table 3A	Hs.737	NM_004907	4758313	Homo sapiens, Similar to kinesin family member 5B, clone MGC:15265 IMAGE:4297793, mRNA, complete cds /cds=(424,1566)	1	TTGTTTACCTTTTCGTGCGGTGGATTC TTTTAACTCCGCTACCTGGCGT
2709	Table 3A	Hs.288156	NM_004911	4758303	cDNA: FLJ21819 fis, clone HEP01185 /cds=UNKNOWN	1	GGGGTTTGTGCTATACACTGGGATGT CTAATTGCAGCAATAAGCCTTTTC
2710	Table 3A	Hs.81984	NM_004922	4758633	SEC24 (S. cerevisiae) related gene family, member C (SEC24C), mRNA /cds=(114,3491)	1	ACCTGGGATGCCCTGCTCTGGACC TCTCATTTCTCTTCATTGGTTTATT
2711	Table 3A	Hs.333417	NM_004930	4826658	capping protein (actin filament) muscle Z-line, beta (CAPZB), mRNA /cds=(0,818)	1	AGCCTGCTTCTGCCACACCTCGCTCT CAGTCTCTCCACATTTCCATAGAG
2712	Table 3A	Hs.2299	NM_004931	4826666	CD8 antigen, beta polypeptide 1 (p37) (CD8B1), mRNA /cds=(50,682)	1	AAGTTTCTCAGCTCCCATTCTACTCT CCCATGGCTTCATGCTTCTTTCA
2713	Table 3A	Hs.171872	NM_004941	4826689	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 8 (RNA helicase) (DDX8), mRNA /cds=(73,3735)	1	GAGCTACTGTGCTCATCTAAAGTGT TGCCCCACTTCCCACCCCGCTCC
2714	Table 3A	Hs.251064	NM_004965	4826757	high-mobility group (nonhistone chromosomal) protein 14 (HMG14), mRNA /cds=(150,452)	1	ATGTTAAGATTGTGTACAAATTGAAA TGCTGTACTGATCCTCAACCAA
2715	Table 3A	Hs.808	NM_004966	14141150	heterogeneous nuclear ribonucleoprotein F (HNRPF), mRNA /cds=(323,1570)	1	TCTGTTGATAGCTGGAGAACTTTAGT TTCAAGTACTACATTGTGAAAGCA
2716	literature	Hs.115541	NM_004972	13325062	Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA /cds=(494,3892)	1	TGAGGGGTTTCAGAATTTTGCATTGC AGTCATAGAAGAGATTTATTTCT
2717	Table 3A	Hs.40154	NM_004973	11863151	jumonji (mouse) homolog (JMJ), mRNA /cds=(244,3984)	1	CCTTGGGAGGGAGACTTCATGTGGTT TATTGCGAGTTTTTTGTTACTTT
2718	Table 3A	Hs.184050	NM_004985	4826811	v-KI-ras2 Kirsten rat sarcoma 2 viral oncogene homolog (KRAS2), mRNA /cds=(192,758)	1	GATGTTTAATGCCAGTCACGACGAGG CTATTTCAAGGTCAGAAGTAATGA
2719	Table 3A	Hs.279946	NM_004990	14043021	methionine-tRNA synthetase (MARS), mRNA /cds=(23,2725)	1	GCCCCAAAGGCAAGAAGAAAAAGTA AAAGACCTTGCTCATAGAAAGTC
2720	Table 3A	Hs.75103	NM_005005	6274549	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide (YWHAZ), mRNA /cds=(84,821)	1	AGTGAAATATGTTACAGAACATGCAC TTGCCCTAATAAAAAATCAGTGAA
2721	Table 3A	Hs.8248	NM_005008	4826855	NADH dehydrogenase (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase) (NDUFS1), mRNA /cds=(46,2229)	1	TGCAGATGCTCTTAAAGCATTGATA ACCTTTGTGACGAACATAAAGAGA
2722	Table 3A	Hs.182255	NM_005008	4826859	non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHP2L1), mRNA /cds=(94,480)	1	GCTAGTTCATGTGTTCTCCATTCTGT GAGCATCCTAATAATCTGTTCC
2723	Table 3A	Hs.151134	NM_005015	4826879	oxidase (cytochrome c) assembly 1-like (OXA1L), mRNA /cds=(0,1487)	1	AACCTCCCAATATCCCTAGCAGCAG CAGCAAACCAAGTCAAGATATCC
2724	Table 3A	Hs.75721	NM_005022	4826897	profilin 1 (PFN1), mRNA /cds=(127,549)	1	CACCTCCCTTACCCATATCCCTCCC GTGTGTGTTGGAAAACCTTTTGT
2725	db mining	Hs.100724	NM_005037	4826929	peroxisome proliferative activated receptor, gamma (PPARG), mRNA /cds=(172,1608)	1	GAGTCTGAGCCACTGCCAACATTTTC CCTTCTCCAGTTGCACTATTCTG
2726	literature	Hs.180455	NM_005053	4826963	RAD23 (S. cerevisiae) homolog A (RAD23A), mRNA /cds=(36,1127)	1	CCCCACCCGAGAAGAACCGTGTGTC TCTGATAAAGTTTTGAAGTGAATA
2727	Table 3A	Hs.180610	NM_005066	4826997	splicing factor proline/glutamine rich (polypyrimidine tract-binding protein-associated) (SFPQ), mRNA /cds=(85,2208)	1	CCCATTCTTGTTTTTAAAGACCAAC AAATCTCAAGCCCTATAATGGC
2728	Table 3A	Hs.149923	NM_005080	14110394	X-box binding protein 1 (XBP1), mRNA /cds=(48,833)	1	AGTGTAGCTTCTGAAAGGTGCTTTCT CCATTTATTTAAACTACCCATGTC
2729	Table 3A	Hs.1579	NM_005082	4827064	zinc finger protein 147 (estrogen-responsive finger protein) (ZNF147), mRNA /cds=(39,1931)	1	GAGTGCCCGATTCTCTAGAGAAAA TCCATAGCCTTCAGATCTTGGTGT
2730	Table 3A	Hs.82712	NM_005087	4826735	fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA /cds=(12,1877)	1	ACTTTGACACCTACTGTGTATAAAAT ATATCATCAGATGTGCTTGAGA
2731	Table 3A	Hs.21595	NM_005088	10835221	DNA segment on chromosome X and Y (unique) 155 expressed sequence (DXYS155E), mRNA /cds=(168,1323)	1	AGCTGTAACGTTGCGGTAGGAAAGA TGGTGTATTATCCAGTTTGCAATT
2732	literature	Hs.248197	NM_005092	4827033	tumor necrosis factor (ligand) superfamily, member 18 (TNFSF18), mRNA /cds=(0,533)	1	TGATATTCAACTCTGAGCATCAGGTT CTAAAAATAATACATACTGGGGT
2733	Table 3A	Hs.75243	NM_005104	12408641	bromodomain-containing 2 (BRD2), mRNA /cds=(1701,4106)	1	GTCATCTCCCATTTGGTCCCTGGA CTGTCTTTGTTGATTCTAATTGT
2734	Table 3A	Hs.95220	NM_005109	4826877	oxidative-stress responsive 1 (OSR1), mRNA /cds=(342,1925)	1	GAGAAATATGATGACCAATAAGTGG AGATTCCCTCTTATGATGTATGCT
2735	literature	Hs.241382	NM_005118	4827031	tumor necrosis factor (ligand) superfamily, member 15 (TNFSF15), mRNA /cds=(1123,1647)	1	ACAAGACAGACTCCACTCAAATTTA TATGAACACCACTAGATACTTCCT

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2736	Table 3A	Hs.11861	NM_005121	4827043	thyroid hormone receptor-associated protein, 240 kDa subunit (TRAP240), mRNA /cds=(77,6601)	1	TCCATACCATTTGTGTGTGGAGGATT ACAGCTAAGCTGTAGTTCAGAGT
2737	Table 3A	Hs.3382	NM_005134	4826933	protein phosphatase 4, regulatory subunit 1 (PPP4R1), mRNA /cds=(93,2894)	1	ACACTTTTGATTGTTTCTAGATGTCT ACCAATAAATGCAATTTGTGACC
2738	Table 3A	Hs.75981	NM_005151	4827049	ubiquitin specific protease 14 (ubiquitin transglycosylase) (USP14), mRNA /cds=(91,1575)	1	ACTGTACAATTTCTGAAGATGGTTATT AACACTGTGCTGTTAAGCATCCA
2739	Table 3A	Hs.152818	NM_005154	4827053	ubiquitin specific protease 8 (USP8), mRNA /cds=(317,3873)	1	TCAGTCCTTTCTTAGGGAAATGACAG GGCAAAGCAATTTTCTGTTGGCT
2740	Table 3A	Hs.89399	NM_005176	6671590	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 2 (ATP5G2), mRNA /cds=(59,484)	1	AGTACAAGGCCCGAAGGGTAGTGAT GGTGCTAAACTCAACATGGATTGG
2741	Table 3A	Hs.431	NM_005180	4885094	murine leukemia viral (bmi-1) oncogene homolog (Bmi1), mRNA /cds=(479,1459)	1	CCCCAGTCTGCAAAAGAAGCACAATT CTATTGCTTTGTCTTGCTTATAGT
2742	Table 3A	Hs.838	NM_005191	4885122	CD80 antigen (CD28 antigen ligand 1, B7-1 antigen) (CD80), mRNA /cds=(375,1241)	1	CTTCTTTTGCCATGTTTCCATTCTGCC ATCTTGAATTGTCTTGTCAGCCA
2743	Table 3A	Hs.247824	NM_005214	4885168	cytotoxic T-lymphocyte-associated protein 4 (CTLA4), mRNA /cds=(0,671)	1	GGGTCTATGTGAAAATGCCCCCAACA GAGCCAGAATGTGAAAAGCAATTT
2744	literature	Hs.211567	NM_005215	4885174	deleted in colorectal carcinoma (DCC), mRNA /cds=(0,4343)	1	CCTTCTTTTACAGGCATCAGGAATTG TCAATGATGATTATGAGTTCCCT
2745	literature	Hs.34789	NM_005216	4885176	dotichyl-diphosphooligosaccharide-protein glycosyltransferase (DDOST), mRNA /cds=(0,1370)	1	CATCTTCAGCATCGTCTTCTTGACACA TGAAGGAGAAGGAGAAGTCCGACT
2746	literature	Hs.89298	NM_005236	4885216	excision repair cross-complementing rodent repair deficiency, complementation group 4 (ERCC4), mRNA /cds=(0,2750)	1	GGGAATGCTGCAAAATGCCAAACAGCT TTATGATTTTCATTCACACCTCTTT
2747	Table 3A	Hs.129953	NM_005243	4885224	Ewing sarcoma breakpoint region 1 (EWSR1), transcript variant EWS, mRNA /cds=(43,2013)	1	TTAAAAATGGTTGTTTAAGACTTTAAC AATGGGAACCCCTTGAGCATG
2748	Table 3A	Hs.1422	NM_005248	4885234	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog (FGR), mRNA /cds=(147,1736)	1	GGGAGAAGTTTGACAGCACTTCCC ACCTCTCTGAATAGTGTATGTGT
2749	Table 3A	Hs.79022	NM_005281	4885262	GTP-binding protein overexpressed in skeletal muscle (GEM), mRNA /cds=(213,1103)	1	TGGTTGACCTTGATGTGCACAGCTC TGCTCTATTATTATTATTGCA
2750	Table 3A	Hs.73172	NM_005263	4885266	growth factor independent 1 (GFI1), mRNA /cds=(267,1535)	1	TGGGAAGGAAGGCTCTGTCTTCAACT CTTTGACCCCTCCATGTGTACCATA
2751	Table 3A	Hs.237519	NM_005271	4885280	yz35c09.s1 cDNA, 3' end /clone=IMAGE:285040 /clone_end=3'	1	GCATGGCTTAACTGGTGATAAAAGC AGTTATTAAAGTCTACGTTTTC
2752	Table 3A	Hs.239891	NM_005301	4885320	G protein-coupled receptor 35 (GPR35), mRNA /cds=(0,929)	1	CTCCCCGTGCTAAGGCCCAAAAG CCAGGACTCTGTGCGTGACCCTC
2753	Table 3A	Hs.289101	NM_005313	4885358	glucose regulated protein, 58kD (GRP58), mRNA /cds=(0,1517)	1	AATTCAAGAAGAAACCCAAAGAAGA AGAAGAAGGCACAGGAGGATCTCT
2754	literature	Hs.89578	NM_005316	4885364	Homo sapiens, general transcription factor IIH, polypeptide 1 (62kD subunit), clone MGC:8323 IMAGE:2819217, mRNA, complete cds /cds=(169,1815)	1	TCCCAGAGCTGATGCTATTGTACTTG CACATTGGAGACTGAAAGGAAAGA
2755	literature	Hs.136857	NM_005320	4885376	H1 histone family, member 3 (H1F3), mRNA /cds=(0,665)	1	GGGGAAGCCGAAGGTTACAAAGGCA AAGAAGGCAGCTCCGAAGAAAAAGT
2756	Table 3A	Hs.14601	NM_005335	4885404	hematopoietic cell-specific Lyn substrate 1 (HCLS1), mRNA /cds=(42,1502)	1	TCCCTGAAGAAATATCTGTGAACCTT CTTTCTGTTAGTCCATAAATTCG
2757	Table 3A	Hs.132834	NM_005337	4885410	hematopoietic protein 1 (HEM1), mRNA /cds=(1582,3423)	1	CCTCTCCGACCTTCATCACTATTCTTA GGATAATGCTGGCGGGCAGAGAT
2758	Table 3A	Hs.193989	NM_005345	5579469	TAR DNA binding protein (TARDBP), mRNA /cds=(88,1332)	1	ACTGCCATCTTACGACTATTCTTCTT TTTAATACACTTAACTCAGGCCA
2759	Table 3A	Hs.274402	NM_005346	5579470	heat shock 70kD protein 1B (HSPA1B), mRNA /cds=(152,2077)	1	AGGGTGTTTCGTTCCCTTTAAATGAA TCAACACTGCCACCTCTGTACGA
2760	Table 3A	Hs.289088	NM_005348	13129149	heat shock 90kD protein 1, alpha (HSPCA), mRNA /cds=(60,2258)	1	GACCCACTGCTGATGATACCAGTGC TGCTGTAACTGAAGAAATGCCACC
2761	Table 3A	Hs.1765	NM_005356	4885448	lymphocyte-specific protein tyrosine kinase (LCK), mRNA /cds=(51,1580)	1	CATTTCTGAGACCACAGAGAGAGAG GGGAGAAGCCTGGGATTGACAGAAG
2762	Table 3A	Hs.1765	NM_005356	4885448	lymphocyte-specific protein tyrosine kinase (LCK), mRNA /cds=(51,1580)	1	CATTTCTGAGACCACAGAGAGAGAG GGGAGAAGCCTGGGATTGACAGAAG
2763	db mining	Hs.75862	NM_005359	4885458	MAD (mothers against decapentaplegic, Drosophila) homolog 4 (MADH4), mRNA /cds=(128,1786)	1	GCTAAGAAGCCTATAAGAGGAATTC TTTTCTTCAATCATAGGGAAAGG
2764	Table 3A	Hs.297939	NM_005385	6631099	cathepsin B (CTSB), mRNA /cds=(177,1196)	1	ACTGACAGAGTGAACACAGAAATAG CTTTTCTTCTAAAGGGGATTGTT
2765	literature	Hs.301862	NM_005395	4885552	postmeiotic segregation increased 2-like 9 (PMS2L9), mRNA /cds=(0,794)	1	CAGACAATGGATGTGGGGTAGAAGA AGAAAACCTTGAAGGCTTAATCTCT

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2766	Table 3A	Hs.288757	NM_005402	4885568	v-rat simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA /cds=(0,629)	1	AAAAGAAGAGGAAAAGTTTAGCCAAG AGAATCAGAGAAAAGATGCTGCATT
2767	literature	Hs.103982	NM_005409	14790145	small inducible cytokine subfamily B (Cys-X-Cys), member 11 (SCYB11), mRNA /cds=(93,377)	1	AGTGACACATATTTTCATAACCAATTAG CAGCACCGGTCTTAATTTGATGT
2768	Table 3A	Hs.72988	NM_005419	4885614	signal transducer and activator of transcription 2, 113kD (STAT2), mRNA /cds=(57,2612)	1	TAGACCTCTTTTCTTACCAGTCTCCT CCCCTACTCTGCCCCCTAAGCTG
2769	literature	Hs.129727	NM_005431	4885656	X-ray repair complementing defective repair in Chinese hamster cells 2 (XRCC2), mRNA /cds=(86,928)	1	AGCACAGTAAAGTAAAGACTATTCT GTTTCTAGGCTGTTGAATCAAAGT
2770	literature	Hs.99742	NM_005432	12408644	X-ray repair complementing defective repair in Chinese hamster cells 3 (XRCC3), mRNA /cds=(353,1393)	1	CATGGGCACAGTGGTGACCCCTTG ATCCCACCGTACAACCCCTCCAC
2771	literature	Hs.75238	NM_005441	4885104	chromatin assembly factor 1, subunit B (p60) (CHAF1B), mRNA /cds=(62,1741)	1	CGTTATCCAGTGTGAAATCAGTGAG TCCTCCCTGGCATCCTCGTGAAG
2772	Table 3A	Hs.301704	NM_005442	11321608	eomesodermin (Xenopus laevis) homolog (EOMES), mRNA /cds=(0,2060)	1	GCTGAAGAGTATAGTAAAGACACCTC AAAAGGCATGGGAGGGTATTATGC
2773	Table 3A	Hs.169487	NM_005461	4885446	Kreisler (mouse) maf-related leucine zipper homolog (KRML), mRNA /cds=(73,1044)	1	TTCAGACTGGTTTCTGTTTTTGGTTA TTAAATGGTTTCTATTGTTGCT
2774	Table 3A	Hs.170311	NM_005463	14110410	heterogeneous nuclear ribonucleoprotein D-like (HNRPDL), transcript variant 1, mRNA /cds=(580,1842)	1	TTTATGATTAGGTGACGAGTTGACAT TGAGATTGCTTTTCCCTGATC
2775	literature	Hs.24284	NM_005484	11496991	ADP-ribosyltransferase (NAD <sup>+</sup> ; poly(ADP-ribose) polymerase)-like 2 (ADPRTL2), mRNA /cds=(149,1753)	1	CCCCAACCCAGGTCCGATGCGGTAC CTTTTAAAGGTTCAAGTTAATTTCC
2776	literature	Hs.271742	NM_005485	11496992	ADP-ribosyltransferase (NAD <sup>+</sup> ; poly(ADP-ribose) polymerase)-like 3 (ADPRTL3), mRNA /cds=(246,1847)	1	TCCTGCAAGGCTGGAGTGTGATCTTC AATCATCTGCCATCTCTGGTAC
2777	Table 3A	Hs.180370	NM_005507	5031634	cofilin 1 (non-muscle) (CFL1), mRNA /cds=(51,551)	1	GGTCACGGCTACTCATGGAAGCAGG ACCAGTAAGGGACCTTCGATTAAAA
2778	literature	Hs.184926	NM_005508	5031628	chemokine (C-C motif) receptor 4 (CCR4), mRNA /cds=(182,1264)	1	CCTTCTAACCTGAAGTGGGTTTC TCCAGAGGGAATTGCAGAGTACTG
2779	Table 3A	Hs.77961	NM_005514	5031742	major histocompatibility complex, class I, B (HLA-B), mRNA /cds=(0,1088)	1	ATGTGTAGGAGGAAGAGTTCAGGTG GAAAGGAGGGAGCTACTCTCAGGC
2780	Table 3A	Hs.334767	NM_005517	5031748	hypothetical protein MGC5629 (MGC5629), mRNA /cds=(285,539)	1	AACGATTGTCTGCCCATGTCTGCCT GAAATACCATGATTGTTTATGGAA
2781	Table 3A	Hs.245710	NM_005520	5031752	heterogeneous nuclear ribonucleoprotein H1 (H) (HNRPH1), mRNA /cds=(72,1421)	1	TTCTTTTAGGTATATTGCGCTAAGT GAAACTTGTCAAATAAATCCTCCT
2782	Table 3A	Hs.177559	NM_005534	5031782	interferon gamma receptor 2 (interferon gamma transducer 1) (IFNGR2), mRNA /cds=(648,1661)	1	GTCTTGACTTTGGCAAATGAGCCGGA GCCCTTGGGCAGGTACACAAACC
2783	literature	Hs.121544	NM_005535	5031784	interleukin 12 receptor, beta 1 (IL12RB1), mRNA /cds=(64,2052)	1	GATACAGAGTTGTCTTGGAGGATGG AGACAGGTGCAAGGCCAAGATGTG
2784	Table 3A	Hs.155939	NM_005541	5031798	inositol polyphosphate-5-phosphatase, 145kD (INPP5D), mRNA /cds=(140,3706)	1	TCCCATGATGGAAGTCTGCGTAACCA ATAAATTGTGCTTTCTCACTCAA
2785	Table 3A	Hs.56205	NM_005542	5031800	insulin induced gene 1 (INSIG1), mRNA /cds=(414,1247)	1	TCTACATGTCTTGGGGGCGGGCTCA AATTCTTCGAAAGTGGTTGGATTAA
2786	Table 3A	Hs.211576	NM_005546	5031810	IL2-inducible T-cell kinase (ITK), mRNA /cds=(2021,3883)	1	ACCTGTTATCCTTTGTAGAGCACACA GAGTTAAAGTTGAATATGCAAT
2787	Table 3A	Hs.23881	NM_005556	5031842	keratin 7 (KRT7), mRNA /cds=(56,1465)	1	TGAGCTTCTCCAGCAGTGCGGGTCC TGGGCTCCTGAAGGCTTATTCATC
2788	Table 3A	Hs.81915	NM_005563	13518023	stathmin 1/oncoprotein 18 (STMN1), mRNA /cds=(91,540)	1	GCATGTCCTCATCCTTCTGCCATA AAAGCTATGACACGAGAACAGAA
2789	Table 3A	Hs.2488	NM_005565	7382491	lymphocyte cytosolic protein 2 (SH2 domain-containing leukocyte protein of 76kD) (LCP2), mRNA /cds=(207,1808)	1	ACCCCTCCCATGAACACAAGGGTTT TATCCTTTCTTTAAAAACAGTGT
2790	Table 3A	Hs.314760	NM_005566	5031856	HOA7-1-F8 cDNA	1	TGCAACCAACTATCCAAGTGTATAC CAACTAAAACCCCAATAAACCTT
2791	db mining	Hs.153863	NM_005585	5031898	Smad6 mRNA, complete cds /cds=(936,2426)	1	ATGCCAGACAAAAAGCTAATACGAG TCACTCGATAATAAGTATTCCGA
2792	literature	Hs.20555	NM_005590	5031920	meiotic recombination (S. cerevisiae) 11 homolog A (MRE11A), mRNA /cds=(170,2296)	1	TGGCACTGAGAAACATGCAAGATACA GGAAAAATGAAATGTTACAGCT
2793	Table 3A	Hs.158164	NM_005594	5031930	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) (TAP1), mRNA /cds=(30,2456)	1	TCTCAAAGGAGTAAGTGCAGCTTGGT TTGAAATTTGACTGTTTCTATCA
2794	Table 3A	Hs.18069	NM_005606	5031990	Homo sapiens, protease, cysteine, 1 (legumain), clone MGC:15832 IMAGE:3507728, mRNA, complete cds /cds=(1124,2425)	1	GTCAACCTTTGTGAGAAGCCGTATCC ACTTCACAGGATAAAATTGTCCAT



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2795	Table 3A	Hs.256280	NM_005620	5032056	S100 calcium-binding protein A11 (calgizzarin) (S100A11), mRNA /cds=(120,437)	1	ATCTCCACAGCCACCCATCCCCTGA GCACACTAACCACCTCATGCAGGC
2796	Table 3A	Hs.8180	NM_005625	5032082	syndecan binding protein (syntenin) (SDCBP), mRNA /cds=(148,1044)	1	TTTCTGACTCCTCTTGCAACAAAA ATGATAGTTGACACTTTATCTCTGA
2797	Table 3A	Hs.76122	NM_005626	5032088	splicing factor, arginine/serine-rich 4 (SFRS4), mRNA /cds=(47,1531)	1	CCTGCAGTAACCCATAGGAAATAAAC TGATAGTTCATATCTCGCGCC
2798	Table 3A	Hs.296323	NM_005627	5032090	serum/glucocorticoid regulated kinase (SGK), mRNA /cds=(42,1337)	1	TAGAAAGGGTTTTATGGACCAATGC CCCAGTTGTCAGTCAGAGCCGTTG
2799	Table 3A	Hs.155188	NM_005642	14717406	TATA box binding protein (TBP)-associated factor, RNA polymerase II, F, 55kD (TAF2F), mRNA /cds=(740,1789)	1	TGTGATGACGTGAGATCAATAAGAAG AACCTAGTCTAGAGACAATGATGC
2800	literature	Hs.100030	NM_005652	5032168	telomeric repeat binding factor 2 (TERF2), mRNA /cds=(124,1626)	1	GTGCTTGCTGTCTCTCCCGACACCC TTAAAGACTGTCTTTTATGCAAAA
2801	Table 3A	Hs.82173	NM_005655	5032176	TGFB inducible early growth response (TIEG), mRNA /cds=(123,1565)	1	AACATTGTTTTGTATATTGGGTGTAG ATTTCTGACATCAAAACTTGGAC
2802	literature	Hs.170283	NM_005657	5032188	tumor protein p53-binding protein, 1 (TP53BP1), mRNA /cds=(173,6091)	1	TGTGTAACGGATTCTTGCATGGAT CTTGATATAGTTTTATTGCTGA
2803	Table 3A	Hs.2134	NM_005658	5032192	TNF receptor-associated factor 1 (TRAF1), mRNA /cds=(75,1325)	1	CAGGACCTCCAAGCCACTGAGCAAT GTATAACCCCAAGGGAATCAAAA
2804	Table 3A	Hs.7381	NM_005662	5032220	voltage-dependent anion channel 3 (VDAC3), mRNA /cds=(99,950)	1	GATCTGACCCACCAAGTTTGATACATCA CGTCTGCAATGCCACACCAATTT
2805	Table 3A	Hs.155968	NM_005667	5031824	zinc finger protein homologous to Zfp103 in mouse (ZFP103), mRNA /cds=(922,2979)	1	ACAATCTCTGTCCAGCACCTCTTGCT TAAATAATGTATGCTGTGACAT
2806	Table 3A	Hs.172813	NM_005678	13027652	PAK-interacting exchange factor beta (P85SPR), mRNA /cds=(473,2413)	1	TGCGTCTTGTAATTTGTGTAGAGTG TTTGTGAGCTTTTGTTCCTCAT
2807	Table 3A	Hs.30570	NM_005710	5031956	polyglutamine binding protein 1 (PQB1), mRNA /cds=(257,1054)	1	CTTCGGCCTCCCTGGCCCTGGGTTA AAATAAAGCTTTCTGGTGATCCTG
2808	Table 3A	Hs.82425	NM_005717	5031592	actin related protein 2/3 complex, subunit 5 (16 kD) (ARPC5), mRNA /cds=(24,479)	1	TGAGCTTGCTGTAGTATTACATTG GATGCCAGTTTTGTAATCACTGAC
2809	Table 3A	Hs.6895	NM_005719	5031596	actin related protein 2/3 complex, subunit 3 (21 kD) (ARPC3), mRNA /cds=(25,561)	1	ATTTGAAATTTCTGCAGCATTAAAGC TGGCGCTTAATAAGAATAAGTAA
2810	Table 3A	Hs.10927	NM_005721	7262289	HSZ78330 cDNA /clone=2.49-(CEPH)	1	TGCGATTCTGTTCTTGCTTTAAAGA AGAGTAAAGACAGAGTGTGGGA
2811	Table 3A	Hs.42915	NM_005722	5031570	ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA /cds=(74,1258)	1	CCTGCCAGTGTACAGAAATCCTATTT ATGAATCCTGTGGGTATTCCTTGG
2812	Table 3A	Hs.173125	NM_005729	5031986	peptidylprolyl isomerase F (cyclophilin F) (PPIF), mRNA /cds=(83,706)	1	CTGTACGCCAAGGTGCCTGAAACGAT ACGTGTGCCCACTCCACTGTCCACA
2813	Table 3A	Hs.83583	NM_005731	5031598	actin related protein 2/3 complex, subunit 2 (34 kD) (ARPC2), mRNA /cds=(84,986)	1	GAAGCGGCTGGCAACTGAAGGCTGG AACACTTGCTACTGGATAATCGTAG
2814	literature	Hs.41587	NM_005732	5032016	Rad50 (Rad50) mRNA, complete cds /cds=(388,4326)	1	TGATCAGTGCTCAGAGATTGTGAAA TGCACTGTAGCTCCCTGGGATTTC
2815	Table 3A	Hs.182591	NM_005739	6382080	RAS guanyl releasing protein 1 (calcium and DAG-regulated) (RASGRP1), mRNA /cds=(103,2498)	1	AGGACAAATCTTGTTGTATTAAACAGC AGGGTCACITCTCATTTTCTTTGC
2816	Table 3A	Hs.182429	NM_005742	5031972	protein disulfide isomerase-related protein (P5), mRNA /cds=(94,1416)	1	AGTCGTATTCTGTACATAATATTTTG AAGAAACTTGGCTGTGGAACA
2817	Table 3A	Hs.291904	NM_005745	10047078	accessory proteins BAP31/BAP29 (DXS1357E), mRNA /cds=(136,876)	1	AGGAGGGTGGGTGGAACAGGTGGAC TGGAGTTTCTCTTGAGGGCAATAAA
2818	Table 3A	Hs.291904	NM_005745	10047078	accessory proteins BAP31/BAP29 (DXS1357E), mRNA /cds=(136,876)	1	TGGAGTTTCTCTTGAGGGCAATAAA TGCACTCAAGATTTAAGGAGATAA
2819	Table 3A	Hs.239138	NM_005746	5031976	pre-B-cell colony-enhancing factor (PBEF), mRNA /cds=(27,1502)	1	TGTTTTAGAGAGAATTTCTGCTT GCTTATGGTCCCCAGCATTTACAGTA
2820	Table 3A	Hs.179808	NM_005771	5032034	retinol dehydrogenase homolog (RDHL), mRNA /cds=(7,978)	1	ACTTGTAATGTTAAGTATCATCT CTTGTTTGTGTTCTCTCTTTCTT
2821	Table 3A	Hs.173993	NM_005777	5032032	RNA binding motif protein 6 (RBM6), mRNA /cds=(133,3504)	1	TTGTTACTGTTCTTGCTGCTAGA TTTTGGAAGATTTTCACTGATGTTGC
2822	Table 3A	Hs.201675	NM_005778	5032030	RNA binding motif protein 5 (RBM5), mRNA /cds=(148,2595)	1	CAAATCTGGCTCCTTTACAAAAGA TCAAGAAATAAAATGCCTCTCCAGCC
2823	Table 3A	Hs.152720	NM_005792	5031918	M-phase phosphoprotein 6 (MPHOSPH6), mRNA /cds=(32,514)	1	TTAAGTATTTACATGCTCCAGGT TCTGGAATGTGTTATAAGCTAGGAG
2824	Table 3A	Hs.179982	NM_005802	5032190	tumor protein p53-binding protein (TP53BPL), mRNA /cds=(540,2987)	1	AATCCCTTTGGACAGCTTTTATTT ATTTCTATCACCATCTTTCCATGT
2825	Table 3A	Hs.143460	NM_005813	6563384	protein kinase C, nu (PRKCN), mRNA /cds=(555,3227)	1	GAAAACCTGAGCCTATTTCTAGT TGGCTGTTGCTTTGCTCATGTGTAT
2826	Table 3A	Hs.142023	NM_005816	5032140	T cell activation, increased late expression (TACTILE), mRNA /cds=(928,2637)	1	GGCTATTTGATTTAACAAGACTT ATAGCCATCCTCTTTCAGTCTGTT
2827	Table 3A	Hs.157144	NM_005819	5032130	syntaphin 6 (STX6), mRNA /cds=(0,767)	1	GGTTGTGCTCATCCTCTTCTAGT AGGGCCAGGGCTGGTGCCCTAAGG
2828	Table 3A	Hs.99491	NM_005825	5031622	RAS guanyl releasing protein 2 (calcium and DAG-regulated) (RASGRP2), mRNA /cds=(253,2082)	1	TTGTACAGACTCTTGTGAATATTTG



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2829	Table 3A	Hs.15265	NM_005826	14141188	heterogeneous nuclear ribonucleoprotein R (HNRPR), mRNA /cds=(90,1991)	1	GCCGTGACAATTTGTTCTTTGATGTG ATTGTATTCCAATTTCTTGTTCA
2830	Table 3A	Hs.18192	NM_005839	5032118	Ser/Arg-related nuclear matrix protein (plenty of prolines 101-like) (SRM160), mRNA /cds=(5,2467)	1	TGGTATATACAACCTTCAGAGCCTCT TGTATTTGGAAGGCTGGAAGGGCC
2831	Table 3A	Hs.29117	NM_005859	5032006	purine-rich element binding protein A (PURA), mRNA /cds=(59,1027)	1	GCTACTGCAGGGTGAGGAAGAAGGG GAAGAAGATTGATCAACAGAATGA
2832	Table 3A	Hs.23964	NM_005870	12056471	sin3-associated polypeptide, 18kD (SAP18), mRNA /cds=(573,1034)	1	TGTTTCAAGCCCTTCTGTAAAATATGA AGAAAAGTCTCTTAGCATTCTGT
2833	Table 3A	Hs.22960	NM_005872	5031652	breast carcinoma amplified sequence 2 (BCAS2), mRNA /cds=(48,725)	1	TTCTAAACACATTCTTGATCACCAAAC AACTTCAGAAAGACAGTGAAGTGT
2834	Table 3A	Hs.21756	NM_005875	5031710	translation factor sul1 homolog (GC20), mRNA /cds=(241,582)	1	ATCTTTGTGAGCAATTATGCTCCCAA ATCTAAGCAAGTAATAAAGAAGGG
2835	Table 3A	Hs.21189	NM_005880	7549807	DnaJ (Hsp40) homolog, subfamily A, member 2 (DNAJ2), mRNA /cds=(52,1290)	1	TGTAAAGTTTGTACAATTTGCTCTGAA GCTTTGTGTTGGCTGCACCTGC
2836	Table 3A	Hs.277721	NM_005899	14110374	membrane component, chromosome 17, surface marker 2 (ovarian carcinoma antigen CA125) (M17S2), transcript variant 2, mRNA /cds=(459,3359)	1	ACAGTATAACTCCTGAATGCTACTTA AATAAACCCAGGATTCAAACGCAA
2837	db mining	Hs.82483	NM_005901	5174510	MAD (mothers against decapentaplegic, Drosophila) homolog 2 (MADH2), mRNA /cds=(55,1458)	1	AGAAGCAGATTTTCTGTAGAAAAAC TAATTTTTCTGCCCTTTTACCAAAA
2838	db mining	Hs.288261	NM_005902	5174512	cDNA: FLJ23037 fis, clone LNG02038, highly similar to HSU68019 mad protein homolog (hMAD-3) mRNA /cds=UNKNOWN	1	GAGCTTGCTCCAGATTCTGATGCATA CGGCTATATTGGTTTATGTAGTCA
2839	db mining	Hs.100602	NM_005904	5174516	MAD (mothers against decapentaplegic, Drosophila) homolog 7 (MADH7), mRNA /cds=(295,1575)	1	ATGGGTGTTTACCTAGCTGAATGT TTTTCTAAAGGAGTTTATGTTCCA
2840	Table 3A	Hs.75375	NM_005917	5174538	malate dehydrogenase 1, NAD (soluble) (MDH1), mRNA /cds=(55,1059)	1	ACGTGCTTCTTGGTACAGGTTTGTGA ATGACAGTTTATCGTCATGCTGTT
2841	Table 3A	Hs.32353	NM_005922	5803087	mitogen-activated protein kinase kinase 4 (MAP3K4), transcript variant 1, mRNA /cds=(142,4965)	1	TGTTGTTGTTGGCAAGCTGCAGGTTT GTAATGCAAAAGGCTGATTACTGA
2842	Table 3A	Hs.68583	NM_005932	5174566	mitochondrial intermediate peptidase (MIPEP), nuclear gene encoding mitochondrial protein, mRNA /cds=(74,2215)	1	TCATTGTTGCTTCTGTAATCTGAAA AACTTTAACTGGTAGAAGCTGG
2843	Table 3A	Hs.211581	NM_005955	5174588	metal-regulatory transcription factor 1 (MTF1), mRNA /cds=(83,2344)	1	CCAGTGCTGTTTGGTGGTCTGCCTTC TTTTAATGGTATTTCTTCTCTCA
2844	Table 3A	Hs.78103	NM_005969	5174612	nucleosome assembly protein 1-like 4 (NAP1L4), mRNA /cds=(149,1276)	1	GCCCCACCATTCATCGTCTGAAGG TCCTGGGTTTGGTGTGACCGCTTG
2845	Table 3A	Hs.48029	NM_005985	5174686	snail 1 (drosophila homolog), zinc finger protein (SNAI1), mRNA /cds=(61,855)	1	CCGACAGGTGGGCTGGGAGGAAAA TGTTACAGATTTTAAAGCACACTG
2846	Table 3A	Hs.12570	NM_005993	8400735	tubulin-specific chaperone d.(TBCD), mRNA /cds=(109,3687)	1	GGGGTGGACGCCTCTGCCTTCACTT GAACACAAATGTGCTTCTATAAAA
2847	Table 3A	Hs.1708	NM_005998	5174728	chaperonin containing TCP1, subunit 3 (gamma) (CCT3), mRNA /cds=(0,1634)	1	GGCAGCCCCAGTCCCTTCTGTCC CAGCTCAGTTTCCAAAAGACACTG
2848	Table 3A	Hs.3712	NM_006003	5174742	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRCF1), nuclear gene encoding mitochondrial protein, mRNA /cds=(90,914)	1	CTGTTAAGCACTGTTATGCTCAGTCA TACACGCGAAAGGTACAATGTCTT
2849	Table 3A	Hs.73818	NM_006004	5174744	ubiquinol-cytochrome c reductase hinge protein (UQCRH), mRNA /cds=(36,311)	1	ATGGGTTTGGCTTGAGGCTGGTAGCT TCTATGTAATTCGCAATGATTCCA
2850	Table 3A	Hs.3776	NM_006007	5174754	zinc finger protein 216 (ZNF216), mRNA /cds=(288,929)	1	TTCAAGTTTGTCTTCAATTTTATGTAC CTTAGTTCTGAGTTAGACCTGCA
2851	Table 3A	Hs.272897	NM_006009	5174732	Tubulin, alpha, brain-specific (TUBA3), mRNA /cds=(0,1355)	1	AAGGATTATGAGGAGGTTGGTGTCGA TTCTGTTGAAGGAGAGGGTGAGGA
2852	Table 3A	Hs.75412	NM_006010	5174392	arginine-rich, mutated in early stage tumors (ARMET), mRNA /cds=(132,836)	1	TCCCTTCTCTGTTGCTGGTGTACT CTAGGACTTCAAAGTGTGTCTGGG
2853	Table 3A	Hs.43910	NM_006016	5174406	CD164 antigen, sialomucin (CD164), mRNA /cds=(79,648)	1	AGTTCATTAATAAAGTCAAAACCAAT CTGTATCATGTACCAAACTGACTT
2854	Table 3A	Hs.137555	NM_006018	5174460	putative chemokine receptor, GTP-binding protein (HM74), mRNA /cds=(60,1223)	1	TGCAGTTTCTCTGCTGTTCTCTCGCT TGTGTTTCTGTACTTACCAAAAAT
2855	Table 3A	Hs.46465	NM_006019	5174620	T-cell, immune regulator 1 (TCIRG1), mRNA /cds=(57,2546)	1	TGCCAGACCTCCTTCTGACCTCTGA GGCAGGAGAGGAATAAAGACGGTC
2856	literature	Hs.54418	NM_006020	5174384	alkylation repair, alkB homolog (ABH), mRNA /cds=(223,1122)	1	AGTCCCAAGGGTGTGTTTGTACTGTT TTCTCCATGAATAAAGTCACTTGA
2857	Table 3A	Hs.43628	NM_006021	5174494	deleted in lymphocytic leukemia, 2 (DLEU2), mRNA /cds=(240,494)	1	ATTAATGTCATTTCTGGAAGTGTGAA AATGTTAATGTTCAACAAGCAACA

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2858	Table 3A	Hs.82043	NM_006023	5174422	D123 gene product (D123), mRNA /cds=(280,1290)	1	GCGGGTGGCCGAGCAGTGTGGACA TCAGCCACTTTTATATTCATGTAC
2859	Table 3A	Hs.997	NM_006025	5174622	protease, serine, 22 (P11), mRNA /cds=(154,1263)	1	CCACTGAGAACTAAATGCTGACCAC AGAGCCGGGTGTGAACATGGTTT
2860	Table 3A	Hs.109804	NM_006026	5174448	H1 histone family, member X (H1FX), mRNA /cds=(101,742)	1	AAACAATCGCTCCGGGCTCAGGGCT GCAGGGCTCTCCCTTCATTCATG
2861	Table 3A	Hs.24594	NM_006048	5174482	ubiquitination factor E4B (homologous to yeast UFD2) (UBE4B), mRNA /cds=(85,3993)	1	TGTCCTCTGTTCAACTCTTAACGCCAA ACTACAATAAATGGTGACACACGT
2862	Table 3A	Hs.274243	NM_006054	5174654	receptor tyrosine kinase-like orphan receptor 1 (ROR1), mRNA /cds=(375,3188)	1	AGCACCTAAGGAGCTTGAATCTTGGT TCCTGTAAAAATTCAAATTTGATGT
2863	Table 3A	Hs.54452	NM_006060	5174500	zinc finger protein, subfamily 1A, 1 (Ikaros) (ZNFN1A1), mRNA /cds=(168,1727)	1	ACCAACACTGTCCCAAGGTGAATGA AGCAACAGAGAGGAAATTTGTACAT
2864	Table 3A	Hs.318501	NM_006074	5174698	stimulated trans-acting factor (50 kDa) (STAF50),	1	TGTCAGCCATTTCATGTCTTGGGAA ACAATTTTTGTTTTGTTCTGTGTT
2865	Table 3A	Hs.8024	NM_006083	11038650	IK cytokine, down-regulator of HLA II (IK), mRNA /cds=(111,1784)	1	AGAGCTTGATCGCCAGTGAAGAAG ATTAGTGCAATCATTGAGAAGGGA
2866	Table 3A	Hs.1706	NM_006084	5174474	interferon-stimulated transcription factor 3, gamma (48kD) (ISGF3G), mRNA /cds=(34,1215)	1	TTCCCTCTTCCTGACCTCCCAACT CTAAAGCCAGCACTTTATATTTT
2867	Table 3A	Hs.5662	NM_006098	5174446	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1 (GNB2L1), mRNA /cds=(95,1048)	1	GGCAGGTGACCATTGGCACACGCTA GAAGTTTATGGCAGAGCTTTACAAA
2868	Table 3A	Hs.284142	NM_006134	8659558	chromosome 21 open reading frame 4 (CD2orf4), mRNA /cds=(158,634)	1	CTGTTTGTAGATAGGTTTATCTCT CAGTACACATTGCCAATGGAGT
2869	Table 3A	Hs.1987	NM_006139	5453610	CD28 antigen (Tp44) (CD28), mRNA /cds=(222,884)	1	GCTCACCATTATGGGTTAAGCATGCC AATTTAAAGAGACCAAGTGTATGT
2870	Table 3A	Hs.82646	NM_006145	5453689	heat shock 40kD protein 1 (HSPF1), mRNA /cds=(40,1062)	1	TAGACTCATTGTAAGTTGCCATGCC AACATGAGACCAAGTGTGTACT
2871	Table 3A	Hs.334851	NM_006148	5453709	LIM and SH3 protein 1 (LASP1), mRNA /cds=(75,860)	1	CAAACCTTCTGGCCTGTTATGATTC TGAACATTTGACTTGAACCAAG
2872	Table 3A	Hs.40202	NM_006152	5453723	lymphoid-restricted membrane protein (LRMP), mRNA /cds=(574,2241)	1	GGGAAAGTATAGCATGAACCCAGAG GTTCTCAGAAATGACCGTAAGATAGC
2873	Table 3A	Hs.75512	NM_006156	5453759	neural precursor cell expressed, developmentally down-regulated 8 (NEDD8), mRNA /cds=(99,344)	1	AGTCCTGTGTGCTTCCCTCTCTTATG ACTGTGTCCTGGTTGTCAATAAA
2874	Table 3A	Hs.79389	NM_006159	5453765	nel (chicken)-like 2 (NELL2), mRNA /cds=(96,2546)	1	ATCTTCAGAAATCAGTTAGGTTCTCTCA CTGCAAGAAATAAAATGTCAGGCA
2875	Table 3A	Hs.96149	NM_006162	5453771	transcription factor (NF-ATc/B) mRNA, complete cds /cds=(369,2846)	1	CTTCTGGCACCCCTGGGGTTCAATAC TGGAAAGTGCCATTATTAACCAGAC
2876	Table 3A	Hs.75643	NM_006163	5453773	nuclear factor (erythroid-derived 2), 45kD (NFE2), mRNA /cds=(273,1394)	1	GGTCTTTAGCCTCCACCTTGCTAAG CTTTGGTCTATAAAGTGCGCTACA
2877	Table 3A	Hs.155396	NM_006164	5453775	nuclear factor (erythroid-derived 2)-like 2 (NFE2L2), mRNA /cds=(39,1808)	1	TGATGATATGACATCTGGCTAAAAAG AAATTAATTGCAAAACTAACCACGA
2878	Table 3A	Hs.95262	NM_006165	5453777	nuclear factor related to kappa B binding protein (NFRKB), mRNA /cds=(2220,5216)	1	TCCAAAGCAGTCTCCACTGTTGTTGT GACTACAGCTCCGCTCTCCTAAACA
2879	Table 3A	Hs.15243	NM_006170	5453791	nucleolar protein 1 (120kD) (NOL1), mRNA /cds=(0,2567)	1	ATTGTCAACAGGTTGGAACCTTGCC TCTGTGAGGATGCCCTCTCTACTG
2880	Table 3A	Hs.82120	NM_006186	5453821	nuclear receptor subfamily 4, group A, member 2 (NR4A2), mRNA /cds=(317,2113)	1	TTTTCTTTGTATATTTCTAGTATGGCA CATGATATGAGTCACTGCCCTTTT
2881	Table 3A	Hs.41694	NM_006190	5453829	origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L), mRNA /cds=(186,1919)	1	TGACCTTCATGATACCAGTGAGAAGC CAGGCTAGAGAAATAAAATCCTGA
2882	Table 3A	Hs.2853	NM_006196	14141164	poly(rC)-binding protein 1 (PCBP1), mRNA /cds=(177,1247)	1	ACGGATTGGTTAAAAAATGCTTCATA TTTGAAAAAGCTGGGAATTGCTGT
2883	Table 3A	Hs.79709	NM_006224	5453907	phosphatidylinositol transfer protein (PITPN), mRNA /cds=(216,1028)	1	GTCTCTCTCCATTGTGTTCCGATCCA TTTCTGTGTGTTCCCAACCTTT
2884	Table 3A	Hs.89040	NM_006228	11079650	prepronociceptin (PNOC), mRNA /cds=(211,741)	1	GCCACTGCCATAACTGTTTGTAAAA GAGCTGTCTTTTGAAGTATTGT
2885	literature	Hs.166846	NM_006231	5453925	polymerase (DNA directed), epsilon (POLE), mRNA /cds=(44,6904)	1	GAACATTGCCAGCACTACGGCATGT CGTACCTCCTGGAGACCTGGAGT
2886	Table 3A	Hs.155079	NM_006243	5453949	protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A), mRNA /cds=(571,2031)	1	ATCTTCATTGGGGGATTGAGCAGCAT TTAATAAAGTCTATGTTTGTATTT
2887	Table 3A	Hs.9247	NM_006251	5453963	protein kinase, AMP-activated, alpha 1 catalytic subunit (PRKAA1), mRNA /cds=(23,1675)	1	TTATAACCGAGGGCTGGCGTTTTGGA ATCGAATTTCCAGAGGGATTGGAA
2888	Table 3A	Hs.315366	NM_006255	5453971	protein kinase C, eta (PRKCH), mRNA /cds=(166,2214)	1	TTCCAGCATCAGCCTTAGAACAAGA ACCTTACCTTCAAGGAGCAAGTGA
2889	Table 3A	Hs.75348	NM_006263	5453989	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha) (PSME1), mRNA /cds=(92,841)	1	CCAGATTTTCCCCAACTTGCTTCTG TTGAGATTTTCCCTCACCTTGCC
2890	Table 3A	Hs.81848	NM_006265	5453993	RAD21 (S. pombe) homolog (RAD21), mRNA /cds=(184,2079)	1	AACCAAGGAGTTTCCCCGTTTGTAA AAAGACATTGTAGATAATTGAATG

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2891	Table 3A	Hs.199179	NM_006267	6382078	RAN binding protein 2 (RANBP2), mRNA /cds=(127,9801)	1	ACCATGTTCTTTCGTTAAAGATTGCT
2892	Table 3A	Hs.173159	NM_006283	5454099	transforming, acidic coiled-coil containing protein 1 (TACC1), mRNA /cds=(320,2737)	1	TTATACAAGATTGTTGCAGTACC
2893	Table 3A	Hs.89657	NM_006284	5454105	TATA box binding protein (TBP)-associated factor, RNA polymerase II, H, 30kD (TAF2H), mRNA /cds=(17,673)	1	CACATCTGCTCCACTGTGTTCCAC
2894	Table 3A	Hs.116481	NM_001782	4502682	CD72 antigen (CD72), mRNA /cds=(108,1187)	1	GGTGCCATGAAGTGTGTGAGGAG
2895	Table 3A	Hs.18420	NM_006289	5454129	lat1 (TLN1), mRNA /cds=(126,7751)	1	CGCACTACTTCACCTGAGCCACCCAA
2896	Table 3A	Hs.211800	NM_006290	5454131	tumor necrosis factor, alpha-induced protein 3 (TNFAIP3), mRNA /cds=(66,2438)	1	CCTAAATGTACTTATCTGTCCCCA
2897	Table 3A	Hs.101382	NM_006291	5454133	tumor necrosis factor, alpha-induced protein 2 (TNFAIP2), mRNA /cds=(131,2095)	1	GGGCGGCCCGGAGCCAGCCAGGCA
2898	Table 3A	Hs.118910	NM_006292	5454139	tumor susceptibility gene 101 (TSG101), mRNA /cds=(90,1262)	1	GTTTTATTGAAATCTTTTAAATAAT
2899	Table 3A	Hs.131255	NM_006294	5454151	ubiquinol-cytochrome c reductase binding protein (UQCRLB), mRNA /cds=(32,367)	1	CTCTCCAAGAGTATTATTACGCTGC
2900	Table 3A	Hs.279841	NM_018062	8922359	hypothetical protein FLJ10335 (FLJ10335), mRNA /cds=(33,1160)	1	TGTACCTCGATCTGAATCTGCCGG
2901	literature	Hs.98483	NM_006297	5454171	X-ray repair complementing defective repair in Chinese hamster cells 1 (XRCC1), mRNA /cds=(105,2008)	1	TCCCTAATAGAAAGCCACCTATTCTTT
2902	Table 3A	Hs.293007	NM_006310	5453987	aminopeptidase puromycin sensitive (NPEPPS), mRNA /cds=(404,3031)	1	GTTGGATTCTTCAAGTTTTTCT
2903	Table 3A	Hs.287994	NM_006312	5454073	nuclear receptor co-repressor 2 (NCOR2), mRNA /cds=(1,7554)	1	AGTACTGCTTTTGTATGTATGTTGAAC
2904	Table 3A	Hs.10842	NM_006325	6042206	RAN, member RAS oncogene family (RAN), mRNA /cds=(114,764)	1	AGGATCCAGGTTTTTATAGCTTG
2905	db mining	Hs.12540	NM_006330	5453721	lysophospholipase I (LYPLA1), mRNA /cds=(35,727)	1	CACITTTCTATCCTCTGTAACTTTTTG
2906	literature	Hs.19400	NM_006341	6006019	MAD2 (mitotic arrest deficient, yeast, homolog)-like 2 (MAD2L2), mRNA /cds=(111,746)	1	TGCTGAATGTTGGGACTGCTAAA
2907	Table 3A	Hs.104019	NM_006342	5454101	transforming, acidic coiled-coil containing protein 3 (TACC3), mRNA /cds=(108,2824)	1	GAAGAATGGCAAAGAAAGTAATCATG
2908	Table 3A	Hs.43913	NM_006346	5453889	PIBF1 gene product (PIBF1), mRNA /cds=(0,2278)	1	TAGTTGAAGTCTGTGGATGACGCT
2909	Table 3A	Hs.158198	NM_006354	5454103	Homo sapiens, Similar to transcriptional adaptor 3 (ADA3, yeast homolog)-like (PCAF histone acetylase complex), clone MGC:3508 IMAGE:3009860, mRNA, complete cds /cds=(557,1666)	1	CAAAGGTTCTTGAGACTCTTGATATTT
2910	Table 3A	Hs.307099	NM_006356	5453558	clone 023e08 My032 protein mRNA, complete cds /cds=(46,459)	1	CTGTCTTCTCCTTGCTGCTTTCCT
2911	Table 3A	Hs.69469	NM_006360	5453653	dendritic cell protein (GA17), mRNA /cds=(51,1175)	1	CCGATGGATCTACAGTTGCAATGAGA
2912	Table 3A	Hs.173497	NM_006363	14591927	Sec23 (S. cerevisiae) homolog B (SEC23B), transcript variant 3, mRNA /cds=(112,2415)	1	AGCAGAAGTACTTCTCACCAGC
2913	Table 3A	Hs.104125	NM_006367	10938021	adenylyl cyclase-associated protein (CAP), mRNA /cds=(62,1489)	1	TTCCTGCATAACTCAATCTGAACCAA
2914	Table 3A	Hs.79089	NM_006378	5454049	sera domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D (SEMA4D), mRNA /cds=(87,2675)	1	GGATTGTAGTTTACTTTTCTCCTCT
2915	Table 3A	Hs.279939	NM_006389	13699861	mitochondrial carrier homolog 1 (MTCH1), nuclear gene encoding mitochondrial protein, mRNA /cds=(0,1118)	1	GCAGGGTGGTGGTATTCTGTCATTTA
2916	Table 3A	Hs.296585	NM_006392	5453793	nucleolar protein (KKE/D repeat) (NOP56), mRNA /cds=(21,1829)	1	CACACGTCGTTCTAATTAAAAAGC
2917	Table 3A	Hs.84153	NM_006400	13259508	dynactin 2 (p50) (DCTN2), mRNA /cds=(136,1356)	1	GCACITTTTGTGTTGAATGTTAGATGCT
2918	Table 3A	Hs.80261	NM_006403	5453679	enhancer of filamentation 1 (cas-like docking; Crk-associated substrate related) (HEF1), mRNA /cds=(163,2867)	1	TAGTGTGAAGTTGATACGCAAGC
2919	Table 3A	Hs.92384	NM_006407	7669496	vitamin A responsive; cytoskeleton related (JWA), mRNA /cds=(89,655)	1	GCAAGAAATATTCATTGAAATATTGT
						1	GCTGTAACATGGGAAAGTGTA
						1	GCCAACTGTCTGTCTCAAATACTG
						1	TGCTGTGAGTTGTTCAATAAAGG
						1	GACCTCATCTCCAAGATGGAGAAGAT
						1	CTGACCTCCACGAGCCGCTGTCC
						1	CTTTACTAAAAAGAAGCACCTGAGT
						1	GGTCTAAGAAACAAAAGATGAAGA
						1	GCCTGGAAGACTGGAAGTGGGTG
						1	AGAGCATCTGAAGCTGCTGGATGG
						1	CAGGAGGAAGCTCTGGCCCTTGATT
						1	ACACATTCTGGACATTAATAATAA
						1	GCCTTTTGAGTCTTTCCGATACCTGA
						1	GTTTTTATGCTTATAAATTTTGT
						1	TTAAGCTGAGGATACAACCAGGAAAT
						1	GCAACGGTGTGAGATTGTGTTCAA
						1	TCTACCCATTTCTGAGGCCCTGTGGA
						1	AATAAACCTTTATGACTTAAAGT
						1	AGCAATAAAGCTGGAATGTTGTGCG
						1	CGTGTGTGGACAGTCTTATCTTCC
						1	AGCTGTTGATGCTGGTTGGACAGGTT
						1	TGAGTCAAATTGTACTTTGCTCCA
						1	AGGTGACATTTCCACCTGTGCCCG
						1	TGTTCCCAATAAAACAAATTCAC
						1	CTGTGGCTGACTGTAATAGTACAA
						1	CTGTTCTGACCATTAATGCTGT
						1	ACATATGCAGACCTGACACTCAAGAG
						1	TGGCTAGCTACACAGAGTCCATCT
						1	TGACTTCACAGACATGGTCTAGAATC
						1	TGTACCCITACCCACATATGAAGA

Table 8

2920	Table 3A	Hs.139120	NM_006413	5454023	Homo sapiens, ribonuclease P (30kD), clone MGC:12258 IMAGE:3827681, mRNA, complete cds /cds=(294,1100)	1	CCCAGTCTCTGTGAGCACTCCCTTCT TCCCTTTTATAGTTCATCAGCCAC
2921	Table 3A	Hs.82921	NM_006416	5453620	solute carrier family 35 (CMP-sialic acid transporter), member 1 (SLC35A1), mRNA /cds=(27,1040)	1	TGACTGAGTACCCCTTTAGTGAGTAC CCCTTTAGTGCTATATTGTGCCA
2922	Table 3A	Hs.82316	NM_006417	5453743	Interferon-induced, hepatitis C-associated microtubular aggregate protein (44kD) (MTAP44), mRNA /cds=(0,1334)	1	TGCCTTTTGAGCAATAGGGAATCTA AGGGAGGAAATTATCAACTGTGCA
2923	db mining	Hs.100431	NM_006419	5453576	small inducible cytokine B subfamily (Cys-X-Cys motif), member 13 (B-cell chemoattractant) (SCYB13), mRNA /cds=(90,419)	1	GCGGGGCGGGGGGACTCTGGTATC TAATCTTTAATGATTCTATAAAT
2924	Table 3A	Hs.94631	NM_006421	6715588	brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA /cds=(141,5690)	1	ACAACTTTCTGTACAATATTGATTCCC ATCTGGCATATTCTAATCAGGTT
2925	Table 3A	Hs.108809	NM_006429	5453606	chaperonin containing TCP1, subunit 7 (eta) (CCT7), mRNA /cds=(68,1699)	1	TTTTACAAGGAAGGGGTAGTAATTGG CCCACTCTCTTCTACTGGAGGCT
2926	Table 3A	Hs.119529	NM_006432	5453677	epididymal secretory protein (19.5kD) (HE1), mRNA /cds=(10,465)	1	AACAACATTAACTTGTGGCCTCTTTCT ACACCTGGAAATTTACTCTTGAA
2927	Table 3A	Hs.174195	NM_006435	10835237	interferon induced transmembrane protein 2 (1-8D) (IFITM2), mRNA /cds=(279,677)	1	ACAGCCGAGTCCTGCATCAGCCCTTT ATCCTCACACGCTTTTCTACAATG
2928	Table 3A	Hs.77225	NM_006437	11496990	ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase)-like 1 (ADPRTL1), mRNA /cds=(106,5280)	1	GTCAAGGCTAAGTCAAATGAACTGA ATTTTAAACTTTTTCATGCTTCT
2929	Table 3A	Hs.118131	NM_006441	5453745	5,10-methylenetetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase) (MTHFS), mRNA /cds=(13,624)	1	AAACGACATGAAGGTAGATGAAGTCC TTTACGAAGACTCGTCAACAGCTT
2930	Table 3A	Hs.340268	NM_006461	5453631	qy37e05.x1 cDNA, 3' end /clone=IMAGE:2014208 /clone_end=3'	1	CCCAATACCAAGACCAACTGGCATAG AGCCAACCTGAGATAAATGCTATTT
2931	Table 3A	Hs.233936	NM_006471	5453739	myosin, light polypeptide, regulatory, non-sarcomeric (20kD) (MLCB), mRNA /cds=(114,629)	1	GGGTCTATACAGAGTCAATATATTTTT TCAGAGAAAGTTAGTTCGGCTCG
2932	Table 3A	Hs.179526	NM_006472	5454161	upregulated by 1,25-dihydroxyvitamin D-3 (VDUP1), mRNA /cds=(221,1396)	1	CCAGAAAGTGTGGGCTGAAGATGGT TGGTTTCATGTGGGGTATTATGTA
2933	Table 3A	Hs.5509	NM_006495	5729817	ecotropic viral integration site 2B (EVI2B), mRNA /cds=(0,1346)	1	TCCAACCTTGAGATCCAGTGCAGGA GTTCTCTATTCTCCCAACTCTGA
2934	literature	Hs.155573	NM_006502	5729981	polymerase (DNA directed), eta (POLH), mRNA /cds=(237,2378)	1	TGGCACAGAAAAGGGACCAAGTTAA AAAAGGGTTTTAAATGTAATGAGA
2935	db mining	Hs.858	NM_006509	5730006	v-rel avian reticuloendotheliosis viral oncogene homolog B (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3) (RELB), mRNA /cds=(144,1883)	1	GGGGTAGGTTGGTTGTCAGAGTCTT CCCAATAAAGATGAGTTTTTGAGC
2936	Table 3A	Hs.4888	NM_006513	5730028	seryl-tRNA synthetase (SARS), mRNA /cds=(75,1619)	1	TGGGCATAGGGACCCATCATTGATGA CTGATGAAACCATGTAATAAGCA
2937	Table 3A	Hs.155040	NM_006526	5730123	zinc finger protein 217 (ZNF217), mRNA /cds=(271,3417)	1	ATTTTCCTACAGCCCTTTGTACTTCAA AATATGTTTTGTGTCCATCAGT
2938	Table 3A	Hs.251636	NM_006537	5730109	ubiquitin specific protease 3 (USP3), mRNA /cds=(93,1659)	1	TCAGCACTAACTAAATAAATTTGTTGG TTCAGTTGTACTTGTCTGCAAA
2939	Table 3A	Hs.86088	NM_006546	5729881	IGF-II mRNA-binding protein 1 (IMP-1), mRNA /cds=(9,1742)	1	AGAGGGTGGATCACACCTCAGTGGG AAGAAAAATAAAATTTCTTCAGGT
2940	Table 3A	Hs.119537	NM_006559	5730026	GAP-associated tyrosine phosphoprotein p62 (Sam68) (SAM68), mRNA /cds=(106,1437)	1	TGTGTAAGCTGCCTCAATAGGTAGC TTAAACTTATGTCAAAATGTCTGC
2941	Table 3A	Hs.59106	NM_006568	5729764	cell growth regulatory with ring finger domain (CGR19), mRNA /cds=(27,1025)	1	TCCTTCTGCTTAGTGAATGAATACT GGAATCCATCTGTGTGATACAAT
2942	db mining	Hs.270737	NM_006573	5730096	tumor necrosis factor (ligand) superfamily, member 13b (TNFSF13B), mRNA /cds=(0,857)	1	GCAATACCAAGAGAAAATGCACAAAT ATCACTGGATGGAGATGTCACATT
2943	Table 3A	Hs.4069	NM_006582	13435376	glucocorticoid modulatory element binding protein 1 (GMEB1), transcript variant 1, mRNA /cds=(138,1859)	1	TGGGGATCTCAGGGCCAGGAGTTAT GTTTTGATTTGGAATTTTAATTATT
2944	Table 3A	Hs.12820	NM_006590	5730024	SnRNP assembly defective 1 homolog (SAD1), mRNA /cds=(492,1466)	1	CCAGTAACTTCGCTCTGTTAGAGGTG GAGGATTTTCTATGTTCCCCCA
2945	literature	Hs.241517	NM_006596	5729983	DNA polymerase theta (POLQ) mRNA, complete cds /cds=(0,8174)	1	TGCTGAAAAGATTGTACTTTGTGATC CCAATCAGAGGGATGGAGCTAATC
2946	Table 3A	Hs.180414	NM_006597	5729876	heat shock 70kD protein 8 (HSPA8), mRNA /cds=(83,2023)	1	TCAGACTGCTGAGAAAGGAAGAAATTG AACATCAACAGAAAGAGCTGGAGA
2947	Table 3A	Hs.154672	NM_006638	13699869	methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methylenetetrahydrofolate cyclohydrolase (MTHFD2), nuclear gene encoding mitochondrial protein, mRNA /cds=(76,1110)	1	TGGGCAGCTTGGGTAAGTACGCAAC TTACTTTTCCACCAAGAACTGTCA

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2948	Table 3A	Hs.36927	NM_006644	5729878	heat shock 105kD (HSP105B), mRNA /cds=(313,2757)	1	TGTGAAAGTGTGGAATGGAAGAAATG TCGATCCTGTTGTAAGTATTGTG
2949	Table 3A	Hs.1845	NM_006674	5729965	MHC class I region ORF (P5-1), mRNA /cds=(304,735)	1	CTAATTTCAAGTCTTTGCTTGGTTG TTCAGGGCCATTTCAGGTTTGGGT
2950	Table 3A	Hs.76807	NM_006696	5730052	major histocompatibility complex, class II, DR alpha (HLA-DRA), mRNA /cds=(26,790)	1	AGCTAGCAGATCGTAGCTAGTTTGT TTGCTTTGTCAATTGTACAGACTT
2951	Table 3A	Hs.5300	NM_006698	5729737	bladder cancer associated protein (BLCAP), mRNA /cds=(254,517)	1	ATGGGCCAGGCAGAGAACAGAACTG GAGGCAGTCCATCTAGGGAATGGGA
2952	Table 3A	Hs.75207	NM_006708	5729841	glyoxalase I (GLO1), mRNA /cds=(87,641)	1	GTTTCCTTTTGGGTGAAATGGATTTA TGTGAGTGCTTTAAACAAATAGC
2953	Table 3A	Hs.74881	NM_006713	5729967	activated RNA polymerase II transcription cofactor 4 (PC4), mRNA /cds=(0,383)	1	GAACAATGGAGCCAGCTGAAGGAAC AGATTTCTGACATAGATGACGCAGT
2954	Table 3A	Hs.195471	NM_006732	5803016	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 (PFKFB3), mRNA /cds=(114,1676)	1	CGTCCCCTCTCCCCTTGGTTCTGCAC TGTGCCAATAAAAAGCTCTTAAA
2955	Table 3A	Hs.75367	NM_006748	5803170	Src-like-adaptor (SLA), mRNA /cds=(41,871)	1	GAGCACCCAGAGGGATTTCAGTG GGAAGCATTACACTTTGCTAAATCA
2956	Table 3A	Hs.77837	NM_006759	13027637	UDP-glucose pyrophosphorylase 2 (UGP2), mRNA /cds=(84,1610)	1	AGCACAGATGGTGCAATACTTTCCCT CTTTGAAGAGATCCCAAAGTAGT
2957	Table 3A	Hs.75462	NM_006763	5802987	BTG family, member 2 (BTG2), mRNA /cds=(71,547)	1	TGGAAGAATGTACAGCTTATGGACAA ATGTACACCTTTTGTACTTTAA
2958	Table 3A	Hs.100555	NM_006773	13787205	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 18 (Myc-regulated) (DDX18), mRNA /cds=(71,2083)	1	TTTTGGAGCAAAAACATATGGGTTGTA ATTTGAATAAAGTGCTACTAAGCA
2959	Table 3A	Hs.143604	NM_006777	10048402	Kaiso (ZNF-kaiso), mRNA /cds=(0,2018)	1	TTCAGCAGGAAATGATTCAATTTTAA AACAAAATGTACAGATGGCAGT
2960	Table 3A	Hs.33085	NM_006784	5803220	WD repeat domain 3 (WDR3), mRNA /cds=(47,2878)	1	AAGTAGCCAAGCTAAGATGCCTGGCT GGGCTTCTGAGGAATTAATACACT
2961	Table 3A	Hs.4943	NM_006787	10863906	hepatocellular carcinoma associated protein; breast cancer associated gene 1 (JCL-1), mRNA /cds=(69,1889)	1	CTGACCGCCACTCTCACATTGGGCT CTTCGCTGGCCTTGGTGGAGCTGG
2962	Table 3A	Hs.6353	NM_006791	5803101	MORF-related gene 15 (MRG15), mRNA /cds=(131,1102)	1	TGCATTGTGTAGCTAGTTTTCTGGAA AAGTCAATCTTTTAGGAATGTTT
2963	Table 3A	Hs.88764	NM_006800	5803103	male-specific lethal-3 (Drosophila)-like 1 (MSL3L1), mRNA /cds=(105,1670)	1	ACAGCTATACTTTGTGTGAATGTTA TGGTTCCCTTTCTGTAATATGTT
2964	Table 3A	Hs.77897	NM_006802	5803166	splicing factor 3a, subunit 3, 60kD (SF3A3), mRNA /cds=(8,1513)	1	GACAGGATCCCCCAGAGACCCCATTT GCCTCTCAACACTCAGACCTTCAA
2965	Table 3A	Hs.272168	NM_006811	5803192	DNA sequence from clone RP1-179M20 on chromosome 20 Contains a 3' end of a novel gene similar to cellular retinaldehyde-binding protein, the TDE1 gene (Tumour differentially expressed 1), the PKIG gene encoding protein kinase (cAMP-dependent, catalytic) inhibitor gamma, the 3' end of the ADA gene encoding adenosine deaminase, 2 CpG islands, ESTs, STSs and GSSs /cds=(69,1490)	1	TTTGGTTTAAATGTAAAGATAGGAAAA TGTTGGATATTTGAGGCCATGCT
2966	Table 3A	Hs.75989	NM_006813	5802981	proline-rich protein with nuclear targeting signal (B4-2), mRNA /cds=(113,1096)	1	AATCTACATTTTCTTACCAGGAGCAG CATTGAGGTTTGTGAGCATAGTAC
2967	Table 3A	Hs.75841	NM_006817	13124889	chromosome 12 open reading frame 8 (C12orf8), mRNA /cds=(11,796)	1	ACTAACCACGATTCTGAGCCCTGAG TATGCCTGGACATTGATGCTAACA
2968	Table 3A	Hs.75812	NM_006819	5803180	stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1), mRNA /cds=(62,1693)	1	TTATTCGCGTCCCCTTCTCCAATAAA ACAAGCCAGTTGGCGCTGGTTAT
2969	Table 3A	Hs.75470	NM_006820	5803026	hypothetical protein, expressed in osteoblast (GS3686), mRNA /cds=(241,1482)	1	TCCTTCCCCTCTCTCCAACATCACA TTCACTTTAAATTTCTGTATAT
2970	Table 3A	Hs.74405	NM_006826	5803228	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide (YWHAQ), mRNA /cds=(100,837)	1	AGTCCCAAAAAAGCCTTGTGAAAAATG TTATGCCCTATGTAAACAGCAGAGT
2971	Table 3A	Hs.15591	NM_006833	5803095	COP9 subunit 8 (MOV34 homolog, 34 kD) (MOV34-34KD), mRNA /cds=(43,938)	1	AGGGGAGGGCACTACACTTCCTTGA GAGAAACCGCTGTCATTATAAAAG
2972	Table 3A	Hs.79933	NM_006835	5802991	cyclin I (CCN1), mRNA /cds=(0,1133)	1	AGGCTGTAGAAGGAAATATACCTTAA CAGGCTGATTTGGAGTGACCCAGA
2973	Table 3A	Hs.278613	NM_006837	5803045	interferon, alpha-inducible protein 27 (IFI27), mRNA /cds=(54,422)	1	ACCAAGTTACCCAAATCTGATTAGAA GTATAAGTGCTCTGAAGTGCTCT
2974	Table 3A	Hs.78504	NM_006839	5803114	inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA /cds=(92,2368)	1	TGAGGCTTGTGAGGCCAATCAAAATA ATGTTTGTGATCTCTACTACTGTT
2975	Table 3A	Hs.75916	NM_006842	5803154	splicing factor 3b, subunit 2, 145kD (SF3B2), mRNA /cds=(48,2666)	1	CAGTTCCTCAAGGACTTGTCATTTCAT GTTCTTATTTAGACCTGTTTTGT

Table 8

2976	db mining	Hs.105928	NM_006847	5803063	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA /cds=(49,1944)	1	ACCACTAGAAGATTCCGGGAACGTTG GGAGTCACCTGATTCTGCAAAAGAT
2977	Table 3A	Hs.315463	NM_006850	5803085	interleukin 24 (IL24), mRNA /cds=(274,894)	1	GTCAAGCTGACCTTGCTGATGGTGAC ATTGCACCTGGATGTAATATCCAA
2978	Table 3A	Hs.64639	NM_006851	5803150	glioma pathogenesis-related protein (RTVP1), mRNA /cds=(128,928)	1	ACAGCTCAAGTACCCTAATTTAGTTC TTTTGGACTAATACAATTCAGGAA
2979	db mining	Hs.113277	NM_006865	5803061	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3 (LILRA3), mRNA /cds=(62,1381)	1	GATGACGCTGGGCACAGAGGGTCAG GTCCTGTCAAGAGAGCTGGGTGTC
2980	Table 3A	Hs.82143	NM_006874	6857815	E74-like factor 2 (ets domain transcription factor) (ELF2), mRNA /cds=(121,1722)	1	AACATCTCTCTTCTCTTCCAACTAC TGCATGAAGAAATCTACTTCCA
2981	Table 3A	Hs.80205	NM_006875	5803124	pim-2 oncogene (PIM2), mRNA /cds=(185,1189)	1	TTCTGCTCGGATTATTTAAAAAGCC ATGTGTGGAAACCCACTATTTAAT
2982	Table 3A	Hs.177530	NM_006886	5901895	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit (ATP5E), mRNA /cds=(91,246)	1	TGCTACATTTCCAAAGGTGAAGATGTG TGGGCACATGTTATGGCAGATTGA
2983	Table 3A	Hs.177656	NM_006888	5901911	calmodulin 1 (phosphorylase kinase, delta) (CALM1), mRNA /cds=(199,648)	1	ACAACCATCAACATTGCTGTTCAAAG AAATTACAGTTTACGTCCATTCCA
2984	Table 3A	Hs.155410	NM_006899	5901981	isocitrate dehydrogenase 3 (NAD+) beta (IDH3B), mRNA /cds=(79,1236)	1	CCCACCCATAGGCCCTGTCCATACCC ATGTAAGGTGTTCAATAAAGAACA
2985	Table 3A	Hs.118684	NM_006923	14141194	stromal cell-derived factor 2 (SDF2), mRNA /cds=(39,674)	1	ACTCTTCAGGAGCTTGGCATCATGGA CTGTTAATGTATGTGATTTTCCCC
2986	Table 3A	Hs.166975	NM_006925	5902077	splicing factor, arginine/serine-rich 5 (SFRS5), mRNA /cds=(218,541)	1	GGTCAAGGGTGCTCTCCACTCTTTAA CAGCTGCTGGACAGACACATTAGA
2987	Table 3A	Hs.7594	NM_006931	5902089	solute carrier family 2 (facilitated glucose transporter), member 3 (SLC2A3), mRNA /cds=(242,1732)	1	GCAACTTCAATGTCACTTTCTGGCTC CTCAAACAGTAGGTTGGCAGTAAG
2988	Table 3A	Hs.180139	NM_006937	5902097	SMT3 (suppressor of mlf two 3, yeast) homolog 2 (SMT3H2), mRNA /cds=(90,377)	1	CCAAGTGAGACGGGGATGGGGAAA AATACTGATTCTGTGGAAATACCC
2989	Table 3A	Hs.86948	NM_006938	5902101	small nuclear ribonucleoprotein D1 polypeptide (16kD) (SNRPD1), mRNA /cds=(150,509)	1	TGTGTAATGTACCTGTCACTGCTCC TTTATTAAGGGGTTCTTTGAGAAT
2990	Table 3A	Hs.237825	NM_006947	5902123	signal recognition particle 72kD (SRP72), mRNA /cds=(0,2015)	1	GCAGGGGCTCCAGCAACAAAAAGA AACAGCAACAGAAAAAGAAAGAGG
2991	Table 3A	Hs.108642	NM_006963	5902159	Homo sapiens, zinc finger protein 22 (KOX 15), clone MGC:9735 IMAGE:3852749, mRNA, complete cds /cds=(133,807)	1	AGACTCACTTACCCTCTTGGAAGCT GGTACAGAAGGAAGTCTGTGGCTG
2992	Table 3A	Hs.167741	NM_006994	6325463	butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA /cds=(171,1925)	1	CCTGGTCATTGGTGAGTGTTAAACCC ATATTCCTTTCAACTGCTGCCTGC
2993	Table 3A	Hs.225951	NM_006999	6631114	topoisomerase-related function protein 4-1 (TRF4), mRNA /cds=(37,1665)	1	AATGAATTGGCCTGGCTACCACTGTG GTCGCGTGCTACAGGTTTGACAAA
2994	Table 3A	Hs.97932	NM_007015	5901931	chondromodulin I precursor (CHM-I), mRNA /cds=(0,1004)	1	TTGATTTGCCATAAGTCTTCCCTTGCT TGCACTCTCCAAAGCTATTTCCA
2995	Table 3A	Hs.93502	NM_007020	5902143	U1-snRNP binding protein homolog (70kD) (U1SNRNPBP), transcript variant 1, mRNA /cds=(213,953)	1	AGTGAAGTTACAGTGGAAATGAGTGG AGGGGGATTGTCTTTCAACGCAGC
2996	Table 3A	Hs.149443	NM_007022	5901883	putative tumor suppressor (101F6), mRNA /cds=(0,668)	1	GCTTGGTCATTATGAACAGGTGAGC AATGCCTACCTATACCGCAAGAGG
2997	literature	Hs.41693	NM_007034	6631084	DnaJ-like heat shock protein 40 (HLJ1), mRNA /cds=(176,1189)	1	AAGGCACTGAAAATATAAAAGGACTG GTAGTTTACTGATGTAGATGTGAA
2998	Table 3A	Hs.87497	NM_007047	5901905	butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA /cds=(188,1147)	1	GCAGAAAAGGGGAACCTATTAGCTC ACGAGTGGTCGAGTGAAAGATTGAA
2999	Table 3A	Hs.169963	NM_007049	5921460	butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA /cds=(210,1793)	1	TATCTTGAGACGCCCTTACAATGATG GAGGATCCAAAGAGTTTTTGT
3000	Table 3A	Hs.164170	NM_007063	5902153	vascular Rab-GAP/TBC-containing (VRP), mRNA /cds=(1117,3810)	1	AAAATGTTGTTGTGTACATACCATGC TTTCAATGTGGCTTCCAAGTTT
3001	Table 3A	Hs.21907	NM_007067	5901961	histone acetyltransferase (HBOA), mRNA /cds=(42,1877)	1	GGTAGAATGTGCTCTTCTATATCTAC TCCTCAATAAAGCATGTTCTCTGC
3002	literature	Hs.37181	NM_007068	5901995	DMC1 (dosage suppressor of mck1, yeast homolog) meiosis-specific homologous recombination (DMC1), mRNA /cds=(53,1075)	1	CCACAAGAGGATTTAAGGGAGGAAT GTTTATAGGACACACACAAAAAGC
3003	Table 3A	Hs.109608	NM_007074	5902133	coronin, actin-binding protein, 1A (CORO1A), mRNA /cds=(100,1485)	1	CTCCAGCAGGGTCAGCCATTACAC CCATCCACTCACTCCCATTTCCAG
3004	Table 3A	Hs.252574	NM_007104	6325471	ribosomal protein L10a (RPL10A), mRNA /cds=(15,668)	1	AACTGGCAGAATGTCGGGCGCTTAT ATATCAAGAGCACCATGGGCAAGC
3005	Table 3A	Hs.29352	NM_007115	6005905	tumor necrosis factor, alpha-induced protein 6 (TNFAIP6), mRNA /cds=(68,901)	1	AACACACAGTGTTTATGTTGGAATCT TTTGAACCTCTTGATCTCACTG
3006	Table 3A	Hs.301819	NM_007145	6005965	zinc finger protein 146 (ZNF146), mRNA /cds=(856,1734)	1	TGGGAGTGAGGATGGGAATGCTGTA TCTGTGGAAGTCATGTTATACTGGA

Table 8

3007	Table 3A	Hs.260523	NM_007158	6005738	neuroblastoma RAS viral (v-ras) oncogene homolog (NRAS), mRNA /cds=(253,822)	1	TGCTTAGATCACTGCAGCTTCTAGGA CCCCGGTTTCTTTTACTGATTTAAA
3008	Table 3A	Hs.301637	NM_007167	6005977	zinc finger protein 258 (ZNF258), mRNA /cds=(93,2264)	1	CTGAACACCAAAATAGCTGTGGGCTT TCTGGAACCTGCTGGCTGGGTGCT
3009	Table 3A	Hs.14963	NM_007192	6005756	chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA /cds=(291,3434)	1	GCTCTGTGACTTTAAGAGAAGGAAGG GGGAGGGGTCGCCGATTATATGTT
3010	literature	Hs.146329	NM_007194	6005849	protein kinase Chk2 (RAD53), mRNA /cds=(0,1631)	1	AGAAATGTCCTTCTTTCACTCTGCAT CTTTCTTTTCTTTGAGTCGTTTTT
3011	literature	Hs.271699	NM_007195	6005847	polymerase (DNA directed) iota (POLI), mRNA /cds=(64,2211)	1	TCCAGATAAAGCAAGATAGTTGCAG GAAGTAAATCTCGGCACAAAGCGT
3012	literature	Hs.251398	NM_007205	6005917	three prime repair exonuclease 2 (TREX2), mRNA /cds=(0,710)	1	CCCACAATGGCTTTGATTATGATTTC CCCCTGCTGTGTCGCCAGCTGCCG
3013	literature	Hs.79086	NM_007208	6005861	mitochondrial ribosomal protein L3 (MRPL3), mRNA /cds=(76,1122)	1	AAATTACAGAAACATGTTAAAGGCCG GACAAAGGAAAGACAATAAAATCA
3014	Table 3A	Hs.182825	NM_007209	6005859	ribosomal protein L35 (RPL35), mRNA /cds=(27,398)	1	GAAGTACGCCGTCAAGGCCTGAGGG GCGCATTGTCAATAAAGCACAGCTG
3015	Table 3A	Hs.151678	NM_007210	13124893	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyl-galactosaminyltransferase 6 (GalNAc-T6) (GALNT6), mRNA /cds=(0,1868)	1	TCTACAGCCATGTCCTATTCTTGAT CATCCAAAGCACCTGCAGAGTCCA
3016	Table 3A	Hs.28866	NM_007217	6005897	programmed cell death 10 (PDCD10), mRNA /cds=(153,791)	1	AATGTAGCTTAATCATAATCTCACACT GAAGATTTTGCATCACTTTTGCT
3017	Table 3A	Hs.28285	NM_007218	6005911	patched related protein translocated in renal cancer (TRC8), mRNA /cds=(0,1994)	1	TGATGATGATGTTTCAAGAGAAAGAA ATGGAGTGATTGAGCACACAGGCG
3018	Table 3A	Hs.283646	NM_007220	6005722	carbonic anhydrase VB, mitochondrial (CA5B), nuclear gene encoding mitochondrial protein, mRNA /cds=(137,1090)	1	GCCACCAGCCAAGCAACCCCTAAA ACATTATATCTAGGCAGTATTTTG
3019	Table 3A	Hs.94446	NM_007221	6005831	polyamine-modulated factor 1 (PMF1), mRNA /cds=(111,608)	1	GCCTTTACCATGTTCTCTCCACATCC GTAATAAACTTCCTTCACTACAA
3020	literature	Hs.334676	NM_007248	6005752	three prime repair exonuclease 1 (TREX1), mRNA /cds=(256,1170)	1	CCACACCTGGCGTAGGCGCAAGAA GGAAAATCTGACGAATAAAGACCCC
3021	literature	Hs.78016	NM_007254	6005835	polynucleotide kinase 3'-phosphatase (PNKP), mRNA /cds=(0,1565)	1	GGGCTGAGCCCCGCCAGCTCCCCCT CCACAATAACCGCTGTTTCTCTTGT
3022	Table 3A	Hs.10958	NM_007262	6005748	RNA-binding protein regulatory subunit (DJ-1), mRNA /cds=(20,589)	1	TTTCTCAGCCTACAAATTGTGTCTATA CATTTCTAAGCCTTGTTCGAGA
3023	db mining	Hs.10326	NM_007263	6005734	coatomer protein complex, subunit epsilon (COPE), mRNA /cds=(42,968)	1	GAGCCCAACCCCGAGCACCCCATCT GTTAATAAATATCTCAACTCCAAA
3024	Table 3A	Hs.8813	NM_007269	6005885	syntaxin binding protein 3 (STXB3P), mRNA /cds=(51,1829)	1	TGGAGTGATTTCACAGTGTGTACTGT TTTGCCACATGCTTCTAAAGAA
3025	Table 3A	Hs.8724	NM_007271	6005813	serine threonine protein kinase (NDR), mRNA /cds=(595,1992)	1	CCCTTTGGAAATGGTGAAGGAACAG CCCAATAGAGTACAGAGCCAGCT
3026	Table 3A	Hs.7771	NM_007273	6005853	B-cell associated protein (REA), mRNA /cds=(9,908)	1	CTCCCTCAAGGCTGGGAGGAGATAA ACACCAACCCAGGAATCTCAATAA
3027	Table 3A	Hs.7719	NM_007278	6005763	GABA(A) receptor-associated protein (GABARAP), mRNA /cds=(104,457)	1	AGGGACTGAAATTTGTGGGGGGAAGG TAGGAGGCACATCAATAAAGAGGAA
3028	Table 3A	Hs.1298	NM_007289	6042203	membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10) (MME), transcript variant 2b, mRNA /cds=(228,2480)	1	TGGGGCAAACCTTGCTAATTTTCTC AAAAGCATTTATCATTCTTGTTGC
3029	literature	Hs.194143	NM_007295	6552300	breast cancer 1, early onset (BRCA1), transcript variant BRCA1b, mRNA /cds=(397,5988)	1	CCCCCAGTGTGCAAGGGCAGTGAAG ACTTGATTGTACAAAATACGTTTTG
3030	Table 3A	Hs.21488	NM_007315	6274551	signal transducer and activator of transcription 1, 91kD (STAT1), mRNA /cds=(196,2448)	1	AGATGGCGGAGAACCTAAGTTTCAGTT GATTTTACAATTGAATGACTAAA
3031	Table 3A	Hs.3260	NM_007318	7549812	presenilin 1 (Alzheimer disease 3) (PSEN1), transcript variant I-463, mRNA /cds=(553,1944)	1	TGTCAGACCTTCTTCCACAGCAAATG AGATGTATGCCCAAGCGGTAGAA
3032	Table 3A	Hs.279811	NM_007329	6633800	deleted in malignant brain tumors 1 (DMBT1), transcript variant 2, mRNA /cds=(106,7347)	1	GTTGCAGGGCGAGGTCAAGAGAGTT CTGACCTGGATGGCCATAGACCTG
3033	Table 3A	Hs.74335	NM_007355	6680306	heat shock 90kD protein 1, beta (HSPCB), mRNA /cds=(0,2174)	1	GACAGCAGGATTGGATGTTGTGTATT GTGGTTTATTTTATTTTCTTCATT
3034	Table 3A	Hs.74085	NM_007360	6679051	DNA segment on chromosome 12 (unique) 2489 expressed sequence (D12S2489E), mRNA /cds=(338,988)	1	AGTGCCTTCCCTGCTGTGGGGGTC ATGCTGCCACTTTTAAATGGGTCTC
3035	Table 3A	Hs.172207	NM_007363	7657382	non-POU-domain-containing, octamer-binding (NONO), mRNA /cds=(136,1551)	1	TTTGGAGTTTTTCTGAAAATGGAGC AGTAATGCAGCATCAACCTATTAA
3036	Table 3A	Hs.158135	NM_011086	6755061	mRNA for KIAA0981 protein, partial cds /cds=(0,1737)	1	CAATGGACAAGTATTTCTAATGGTA CCAGACCACTGGACAGGCTTGGGT
3037	Table 3A	Hs.9754	NM_012068	12597624	activating transcription factor 5 (ATF5), mRNA /cds=(319,1167)	1	GTGTTGGAGAGGGGCTGTGTCTGGG TGAGGGATGGCGGGGTACTGATTTT



Table 8

3038	Table 3A	Hs.97199	NM_012072	11496985	complement component C1q receptor (C1QR), mRNA /cds=(148,2106)	1	GTGCTTTGAGGGTCAGCCTTTAGGAA GGTGACGCTTTGTTGCTCTTGAG
3039	Table 3A	Hs.173334	NM_012081	6912353	ELL-RELATED RNA POLYMERASE II, ELONGATION FACTOR (ELL2), mRNA /cds=(0,1922)	1	GGCTCACATCAAAAGGCTAATAGGTG AATTTGACCAACAGCAAGCAGAGT
3040	Table 3A	Hs.1710	NM_012089	9961243	ATP-binding cassette, sub-family B (MDR/TAP), member 10 (ABCB10), nuclear gene encoding mitochondrial protein, mRNA /cds=(43,2259)	1	CAGAAAGCAAACAACACAATTACAAG GTTGAATCTGAGGAAAATAATCCT
3041	Table 3A	Hs.342849	NM_012097	6912243	xv24a05.x1 cDNA, 3' end /clone=IMAGE:2814032 /clone_end=3'	1	TCTCTGTGTGTTCTCTGTATTGTACTA ACCAACCTCCCAATCGCTGAGC
3042	Table 3A	Hs.33979	NM_012123	6912299	CGI-02 protein (CGI-02), mRNA /cds=(268,2124)	1	CCTGGAATAAACTCAACATGCAGAT TTGCCTACTCATAGGGACTTTGCC
3043	Table 3A	Hs.22857	NM_012124	6912303	chord domain-containing protein 1 (CHP1), mRNA /cds=(84,1082)	1	TGCCTCCCTGATGGAACTATATAA AATTGTAGACTTAAAGGTTTGTG
3044	Table 3A	Hs.36794	NM_012142	6912335	cyclin D-type binding-protein 1 (CCNDBP1), mRNA /cds=(87,1172)	1	TTCAATTGTAAGATGTTGATGTGCTC AATAAAATGCTAACTTGCCAGTGA
3045	Table 3A	Hs.83363	NM_012151	12056462	coagulation factor VIII-associated (intronic transcript) (F8A), mRNA /cds=(57,1172)	1	CGTCCGCACGGTACGCTTCATGGG AGTCATTTTATCCTTACAGCTTCC
3046	Table 3A	Hs.24178	NM_012155	6912355	microtubule-associated protein like echinoderm EMAP (EMAP-2),	1	TGGTGTGTTGGTTGGGGTGTTTTTTA AGTTTTTCTTTTATATCATCCAG
3047	Table 3A	Hs.5912	NM_012179	7106310	F-box only protein 7 (FBX07), mRNA /cds=(205,1773)	1	CTCCCTGCTCTGGTCTCTCTCTAGA TTGAAGTTTGTGTTCTGATGGTGT
3048	Table 3A	Hs.79381	NM_012198	6912387	grancalcin, EF-hand calcium-binding protein (GCA), mRNA /cds=(119,772)	1	TGAAGACATAGTTCACCTAAAATGGC ATCCTGCTCTGAATCTAGACTTTT
3049	Table 3A	Hs.14520	NM_012199	6912351	eukaryotic translation initiation factor 2C, 1 (EIF2C1), mRNA /cds=(213,2786)	1	CCCTTTGAGATTGTGTTTGTGCTCT GCTTTGAGCTGTACCTGTGCCAGT
3050	Table 3A	Hs.5734	NM_012215	11024697	meningioma expressed antigen 5 (hyaluronidase) (MGEA5), mRNA /cds=(395,3145)	1	TCCTGTAGAAAACGAAGTAAAAAGA CCATGCAAGAGGCAAAATAAACT
3051	literature	Hs.271353	NM_012222	6912519	mutY (E. coli) homolog (MUTYH), mRNA /cds=(134,1774)	1	CCAGTGACACCTCTGAAAGCCCCCAT TCCTTGAGAACTCCTGTTGTAGTA
3052	Table 3A	Hs.26719	NM_012231	10092605	PR domain containing 2, with ZNF domain (PRDM2), mRNA /cds=(855,6014)	1	CCTGGTCAGTGGTGGTCTCAAGAC GACAGCTCTGTATCTGCCATGTGAA
3053	literature	Hs.44017	NM_012237	13775599	sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 2 (SIRT2), transcript variant 1, mRNA /cds=(200,1389)	1	CCCACTTCCCATGCTGGATGGGCAG AAGACATTGCTTATTGGAGACAAAT
3054	Table 3A	Hs.31176	NM_012238	13775598	sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 1 (SIRT1), mRNA /cds=(53,2296)	1	TTACTGGCATATGTTTTGTAGACTGTT TAATGACTGGATATCTTCTCTCA
3055	Table 3A	Hs.22891	NM_012244	6912669	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (SLC7A8), mRNA /cds=(730,2337)	1	AATGTAAGGTTGTTTTGGGGGATGGA GTTAGAACCCTAATGATAATTTCT
3056	Table 3A	Hs.79008	NM_012245	6912675	SKI-INTERACTING PROTEIN (SNW1), mRNA /cds=(27,1637)	1	TTTGGAGTGGGCAAAGTAACCTCTTG CTTGGTGCAACTATTTGTTTCAAA
3057	Table 3A	Hs.268555	NM_012255	6912743	5'-3' exonuclease 2 (XRN2), mRNA /cds=(68,2920)	1	GCTTATAAACACATTGTAGGAATAGG AGGTCCGGGTTTTCCATAATGGGT
3058	Table 3A	Hs.10882	NM_012257	6912409	HMG-box containing protein 1 (HBP1), mRNA /cds=(23,1567)	1	TCTTATCATTTGCATACATTTTCTGGAT GCTTGAGCCATCAGATATCAGT
3059	Table 3A	Hs.23170	NM_012280	7110660	homolog of yeast SPB1 (JM23), mRNA /cds=(300,1289)	1	TGCAGTGGGAATTTCTGAGTGAGGTC TTACCTCTTCTTTAAACCTCTTCA
3060	Table 3A	Hs.173714	NM_012286	6912447	MORF-related gene X (KIAA0026), mRNA /cds=(305,1171)	1	TGCATTATTGTGTAGCCACGGTTTTTC TGGAAAAGTTGATATTTTAGGAAT
3061	Table 3A	Hs.18895	NM_012290	6912719	tousled-like kinase 1 (TLK1), mRNA /cds=(212,2575)	1	ATTACATTGGAAGGGAGCTTTCAGAG TGGTAGGATATTGACTAATCTGAGC
3062	Table 3A	Hs.30687	NM_012296	6912459	GRB2-associated binding protein 2 (GAB2), mRNA /cds=(160,2076)	1	CATGGTACAGGCTTGGAGCTTGCAG GTCCCTTTCTACTGTGGTGTGGAG
3063	Table 3A	Hs.120165	NM_012318	6912481	leucine zipper-EF-hand containing transmembrane protein 1 (LETM1), mRNA /cds=(297,2516)	1	TGTGCAGGGACAGTTGGCTTCCAGA GGTTTCAGCTTTCAGTTATTTGAGA
3064	Table 3A	Hs.234279	NM_012325	6912493	microtubule-associated protein, RP/EB family, member 1 (MAPRE1), mRNA /cds=(84,870)	1	AATTCCATTTTATTGGGAACCCATTTT CCACCTGGTCTTCTTGACAGGG
3065	Table 3A	Hs.172740	NM_012326	10800411	microtubule-associated protein, RP/EB family, member 3 (MAPRE3), mRNA /cds=(153,998)	1	AAATAAACTGTGTGGTAAAAGTACA TGCCATGTGTCCTCAACTGAAAA
3066	Table 3A	Hs.18625	NM_012332	6912517	Mitochondrial Acyl-CoA Thioesterase (MT-ACT48), mRNA /cds=(147,1367)	1	TTCAAGACAATTTTAAATGTGAACCTA CCATGTTGCCCTCCCATCTTCTGA
3067	Table 3A	Hs.215766	NM_012341	6912531	GTP-binding protein (NGB), mRNA /cds=(23,1924)	1	TTTGTAAAGAGCTGGGAGCAAAACGCT TTATGAGTGTGTCGGAATCCCGTG
3068	Table 3A	Hs.74420	NM_012381	6912561	origin recognition complex, subunit 3 (yeast homolog)-like (ORC3L), mRNA /cds=(26,2161)	1	CCCAACAGGCATGTATCAAAACACC TGTGGAGTACTTTAGACTCCAACA
3069	Table 3A	Hs.241531	NM_012392	6912581	PEF protein with a long N-terminal hydrophobic domain (peflin) (PEF), mRNA /cds=(12,866)	1	TGGGGCCAAAAGTCCAGTGAAATTGT AAGCTTCAATAAAAGGATGAACT



Table 8

3070	Table 3A	Hs.21807	NM_012406	9055315	PR domain containing 4 (PRDM4), mRNA /cds=(122,2527)	1	TGGGCTGGAGTAGAGGACTCTGGTG GGAAGGTTTTGCTGCTAATGTATTT
3071	Table 3A	Hs.79033	NM_012413	9257235	glutamyl-peptide cyclotransferase (glutamyl cyclase) (QPCT), mRNA /cds=(11,1099)	1	AGCTAAACAGTACTTAAATAGCGGTT GGAAGTAGGAGCCTTTTCGAATTT
3072	literature	Hs.128501	NM_012415	6912621	RAD54, S. cerevisiae, homolog of, B (RAD54B), mRNA /cds=(80,2812)	1	TGTCATTCATTTTTCAGAATATAACCA CTCAAGCTACTGGCACATAGTGA
3073	Table 3A	Hs.333212	NM_012417	6912623	retinal degeneration B beta (RDGBB), mRNA /cds=(0,998)	1	TCTGATAGAGAAAAAGACTGCTTTGT CACTCAAAATGTTCTTCGACCT
3074	Table 3A	Hs.151242	NM_012423	14591905	serine (or cysteine) proteinase inhibitor, clade G (C1 inhibitor), member 1 (SERPING1), mRNA /cds=(60,1562)	1	GGCATCGCCCATGCTCTCACCTGTA TTTTGAATCAGAAATAAATTGCT
3075	Table 3A	Hs.334826	NM_012433	6912653	splicing factor 3b, subunit 1, 155kD (SF3B1), mRNA /cds=(0,3914)	1	TTTGATGTTAAACAGTAAATGCCAGT AGTGACCAAGAACACAGTGATTAT
3076	literature	Hs.159737	NM_012444	6912679	SPO11, meiotic protein covalently bound to DSB (S. cerevisiae)-like (SPO11), mRNA /cds=(108,1298)	1	CCTTTGCCCTTATACCTTAGGGTCTT ACTCCATTAATTCATTTGTGTACA
3077	literature	Hs.244613	NM_012448	6912687	signal transducer and activator of transcription 5B (STAT5B), mRNA /cds=(146,2509)	1	TGCACGTTATGGTGTCTTCTCCCTCTC ACTGTCTGAGAGTTTAGTTGTAGC
3078	Table 3A	Hs.109571	NM_012456	6912707	translocase of inner mitochondrial membrane 10 (yeast) homolog (TIMM10), mRNA /cds=(129,401)	1	CTGTAGAGAGTCTTCAAGATCCCGGA GTGGTAGCGCTGTCTCCTGGTGAA
3079	Table 3A	Hs.7797	NM_012461	6912715	TERF1 (TRF1)-interacting nuclear factor 2 (TINF2), mRNA /cds=(262,1326)	1	TAGTAGGAATGAAGTGGAAGTCCAG GCTTGGATTGCCTAACTACACTGCT
3080	Table 3A	Hs.105806	NM_012483	7108345	granulysin (GNLY), transcript variant 519, mRNA /cds=(280,669)	1	GATCCAGAATCCACTCTCCAGTCTCC CTCCCCTGACTCCCTCTGCTGTCC
3081	Table 3A	Hs.199263	NM_013233	7019542	Ste-20 related kinase (SPAK), mRNA /cds=(173,1816)	1	ATTCCATTCTATTGTTTACACAACGAT TACTCGAAGATGACTGCAAAAGT
3082	Table 3A	Hs.283781	NM_013234	10801344	muscle specific gene (M9), mRNA /cds=(171,827)	1	AGCCAAGAAGAGAGCATTAAACCCAA GAACATTGTGGAGAAGATTGACTT
3083	Table 3A	Hs.13493	NM_013236	7106298	like mouse brain protein E46 (E46L), mRNA /cds=(198,1625)	1	TATATTGACTTACTCTGTGACAGCAGA TAATAAACAGTCTCTTGGAGGGC
3084	Table 3A	Hs.279529	NM_013237	7019508	px19-like protein (PX19), mRNA /cds=(176,835)	1	CTTATTCTCCCATTTGGGACAGTGAGG ACCGAGGCACAGAGTGGCGGTGAC
3085	Table 3A	Hs.126355	NM_013252	10281688	C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 5 (CLECSF5), mRNA /cds=(197,763)	1	TCACTGTATACCACTGGAGTTTCTG GTTATCTCTCGTATAGCAAAATCT
3086	Table 3A	Hs.169330	NM_013259	10047091	neuronal protein (NP25), mRNA /cds=(49,897)	1	GCTGCCACCTCCTGTTTCATTTAGAAC TATGCAAGAGCTCCGCTTCGGTTT
3087	Table 3A	Hs.136748	NM_013269	7019446	lectin-like NK cell receptor (LLT1), mRNA /cds=(13,588)	1	ACAGCAAAGCCCACTAATCTTTAG AAGCATATTGGAACTGATAACTCC
3088	Table 3A	Hs.14805	NM_013272	7706713	solute carrier family 21 (organic anion transporter), member 11 (SLC21A11), mRNA /cds=(193,2325)	1	GCCAGCTTGGAGGATGGACATTTCTG GATACACATACATACAAAACAG
3089	literature	Hs.129903	NM_013274	7019490	polymerase (DNA-directed), lambda (POLL), mRNA /cds=(371,2098)	1	GTCAACATCATCCGGCACCCTCTGG GGTAGGAGAACAGCCATTCCACATG
3090	Table 3A	Hs.54642	NM_013283	11034824	methionine adenosyltransferase II, beta (MAT2B), mRNA /cds=(0,1004)	1	TCATATGTGTGGTTATACCTATAATAA TGGGCCCTTGTAAAGCCTTTTCACC
3091	literature	Hs.252846	NM_013284	7019492	wm25f06.x1 cDNA, 3' end /clone=IMAGE:2436995 /clone_end=3'	1	CTGCTTGACTCACCAGGCTTCTATTT GATGCACCCAGGCCCTTGTGGC
3092	Table 3A	Hs.75528	NM_013285	7019418	nucleolar GTPase (HUMAUNANTIG), mRNA /cds=(79,2274)	1	GGGACAGAACAACAAACGCAAAAAAT TCAGACAAAAGCAGTAATGTTTAA
3093	Table 3A	Hs.106260	NM_013322	7019536	sorting nexin 10 (SNX10), mRNA /cds=(128,733)	1	GCGATCCTCATCCCTTTCAGCAATATG TATTTGAGTTCACACTATTTCTGT
3094	Table 3A	Hs.289080	NM_013326	7019454	colon cancer-associated protein Mic1 (MIC1), mRNA /cds=(76,1905)	1	TTTTGAACAGCGAAACAGCGTTTGC GAGGGAGCCCAATTTTACACACCAG
3095	literature	Hs.283018	NM_013347	9558730	replication protein A complex 34 kd subunit homolog Rpa4 (HSU24186), mRNA /cds=(404,1189)	1	TTCCAAAAGAAAACTAGTTGCAGTC AGGGAGCCAGCGAAAAGACAAAAA
3096	Table 3A	Hs.272409	NM_013351	7019548	T-box 21 (TBX21), mRNA /cds=(211,1818)	1	ACTGAGAGTGGTGCTGGATATATTC CTTTTGCTTCATCACTTTCTGAA
3097	Table 3A	Hs.58636	NM_013352	7019520	squamous cell carcinoma antigen recognized by T cell (SART-2), mRNA /cds=(149,3025)	1	GCATGCATTCTTGGTTGTTCAATAA GTGAGATGATTACAGATAAATACTG
3098	literature	Hs.169138	NM_013368	7019514	RPA-binding trans-activator (RBT1), mRNA /cds=(291,881)	1	CTGATTTTCATAACAGGCCGACACAC GTGCAATAGGGTGGAACCAAACT
3099	Table 3A	Hs.136713	NM_013378	7019568	pre-B lymphocyte gene 3 (VPREB3), mRNA /cds=(42,413)	1	GAAGACGACGCGGATTACTACTGCTC TGTTGGCTACGGCTTTAGTCCCTA
3100	Table 3A	Hs.279784	NM_013388	7019502	prolactin regulatory element binding (PREB), mRNA /cds=(131,1384)	1	TGAACCTCAGCCCATAGGCAGGAAA AGTTGATATTTAATAAACAGGAA
3101	Table 3A	Hs.171825	NM_013390	7019554	basic helix-loop-helix domain containing, class B, 2 (BHLHB2), mRNA /cds=(186,1434)	1	CCAAGGCACCTGGCTTTTCTGTTTAT ATACTAATAATCAGGGCCTAAGT
3102	Table 3A	Hs.272736	NM_013392	7019332	nuclear receptor binding protein (NRBP), mRNA /cds=(112,1719)	1	GGGGGCCATTGATTGCGCTCAGTT GCTGCTGTAATAAAAGTCTACTTTT
3103	Table 3A	Hs.7838	NM_013446	7305272	makorin, ring finger protein, 1 (MKRN1), mRNA /cds=(122,1570)	1	ACTTTAAGAAAAACAAATAATTGTTG CAGAGGTCTCTGATTTTGCAGC

Table 8

3104	Table 3A	Hs.8858	NM_013448	7304918	bromodomain adjacent to zinc finger domain, 1A (BAZ1A), mRNA /cds=(115,5139)	1	CTGTACCAGTCTGGCTGCAGGTATT AAGTCCAAGTTTATTAAGTAGATA
3105	Table 3A	Hs.277401	NM_013449	7304920	bromodomain adjacent to zinc finger domain, 2A (BAZ2A), mRNA /cds=(739,6375)	1	GCCACCTCTGTGTTCTGTATAGCA AATATGGGACCATCACCAGCTTAC
3106	Table 3A	Hs.234680	NM_013451	7305052	fer-1 (C.elegans)-like 3 (myoferlin) (FER1L3), mRNA /cds=(96,6281)	1	TCCTGAGGTGATATATCTCATATTTGT AATCAACTGAAAGAGCTGTGCAT
3107	literature	Hs.100299	NM_013975	7710125	ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA /cds=(323,3091)	1	TGCTGGGTTTGCCATCTTTTGTTC TTTGAAAAGCAGCTTAGTTACCC
3108	Table 3A	Hs.8262	NM_013995	7669502	lysosomal-associated membrane protein 2 (LAMP2), transcript variant LAMP2B, mRNA /cds=(137,1369)	1	CCACTAGTTGATGTATGGTATCTTTA GATATTTGCCTGTCTGTTTGCTCA
3109	Table 3A	Hs.127649	NM_014007	7662099	KIAA0414 protein (KIAA0414), mRNA /cds=(1132,2535)	1	AATGGCCTACAACCAAGCTATTTGTC CCCTACTTTGAGTCTTAACGTGG
3110	Table 3A	Hs.301175	NM_014029	7661739	HSPC022 protein (HSPC022), mRNA /cds=(18,623)	1	ATCCTGAGCTGCACCTACCTGTGAGA GTCTTCAAACCTTTAAACCTTGCC
3111	Table 3A	Hs.11125	NM_014041	7661745	HSPC033 protein (HSPC033), mRNA /cds=(168,443)	1	TGCTCTGAGATGGGGAACAGAACAC ACAAGTATGAAGTTTCTTTGAGGTG
3112	Table 3A	Hs.182238	NM_014052	7661715	GW128 protein (GW128)	1	AAGCACACCCGTGGTGTGAAAATAG TATAGCAAAAAAGAAAAATCCCG
3113	Table 3A	Hs.76640	NM_014059	7662650	RGC32 protein (RGC32), mRNA /cds=(146,499)	1	TGTTTACCTGCTTGACGATATTAGA ACAGACGATCCATGCTAATATTGT
3114	Table 3A	Hs.279040	NM_014065	7661837	HT001 protein (HT001), mRNA /cds=(241,1203)	1	AATCCTTACTTAAATCTTCCGTAC CACCCTTGAACCAATTAGCTTTT
3115	Table 3A	Hs.5327	NM_014106	7662624	PRO1914 protein (PRO1914), mRNA /cds=(1222,1425)	1	ATAACAGTTCTATTTGGAATGATACC CACAACTCTAAGCATCTTATCC
3116	Table 3A	Hs.78951	NM_014110	13699255	protein phosphatase 1, regulatory (inhibitor) subunit 8 (PPP1R8), mRNA /cds=(935,1318)	1	AGAGATTTGTGACATTTGTGATAGG CCTTTTCATGCTTTATGTGTAGCT
3117	Table 3A	Hs.26102	NM_014112	7657658	trichorhinophalangial syndrome 1 gene (TRPS1), mRNA /cds=(638,4483)	1	TCTTGGTGTATTTCTTATGCAACAAT CTTCAGGCAGCAAGATGTCTGT
3118	Table 3A	Hs.179898	NM_014153	7661761	HSPC055 protein (HSPC055), mRNA /cds=(1400,1903)	1	AACCTGTACTGTTGGTATTGTGTTAG TGTATGGACCAACTACTGCCTGTAA
3119	Table 3A	Hs.279474	NM_014160	8850222	HSPC070 protein (HSPC070), mRNA /cds=(331,1581)	1	AATTGAGGGACCATCAGATAACTGTA TTTTGTGAGGTGCAATAAAAACAA
3120	Table 3A	Hs.5232	NM_014165	7661765	HSPC125 protein (HSPC125), mRNA /cds=(79,606)	1	CTATGTGTAATCCTCATCCCTCCTGC TGTATATTTCTCATTTTTTGCGT
3121	Table 3A	Hs.181112	NM_014166	7661787	HSPC126 protein (HSPC126), mRNA /cds=(25,837)	1	TAAAGAGTAACAAAAAGCTGCAATTGA CAGTAAAGGCTCTTGGCTCTGT
3122	Table 3A	Hs.279761	NM_014169	7661793	HSPC134 protein (HSPC134), mRNA /cds=(45,716)	1	GCTCCCTTCTCTTGTATAGCAGTTAT AATGCCCTTGTGCAATAAAACT
3123	Table 3A	Hs.13645	NM_014174	7661803	HSPC144 protein (HSPC144), mRNA /cds=(448,1123)	1	CTGAGATACTGCTGCTGGAATGGGC GAGACATTGCTGCAAGAAGTCAAG
3124	Table 3A	Hs.30026	NM_014188	7661831	cDNA FLJ13048 fis, clone NT2RP3001399, weakly similar to SSU72 PROTEIN /cds=(27,488)	1	CTGCGCGTGTGTAGCAATGACCTGG AATTGTCAATAACAGATGCTGCTG
3125	Table 3A	Hs.121025	NM_014205	7656935	chromosome 11 open reading frame 5 (C11orf5), mRNA /cds=(45,1256)	1	AGCTCCCTAGCTGAACGGTTACCCCT GGTCATTAATAAAGCTGTGACTGG
3126	Table 3A	Hs.58685	NM_014207	7656964	CD5 antigen (p56-62) (CD5), mRNA /cds=(72,1559)	1	CTCATCTAAGACACCTTCCTTTCCA CTGGCTGTCAAGCCACAGGGCACC
3127	Table 3A	Hs.70499	NM_014210	7657074	ecotropic viral integration site 2A (EV12A), mRNA /cds=(219,917)	1	GGCAGAATCCACACAGCTTATCAAC CAACACAGCTAATTTTGAATAGG
3128	Table 3A	Hs.173902	NM_014225	7657474	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform (PPP2R1A), mRNA /cds=(138,1907)	1	GACAGGACAGTGACCTTGGGAGGAA GGGGCTACTCCGCCATCCTTAAAG
3129	Table 3A	Hs.273307	NM_014230	7657616	signal recognition particle 68kD (SRP68), mRNA /cds=(0,1859)	1	GGACAAGTTGGAACAGAAGACCAAG AGTGGCCTCACTGGATACATCAAGG
3130	Table 3A	Hs.332724	NM_014232	7657674	AV705126 cDNA, 5' end /clone=ADBCFB08 /clone_end=5'	1	CCCCAATTCTGTGGCGCATCCAGATT GTGAAATGTACAATAAATGTGTA
3131	Table 3A	Hs.14084	NM_014245	7657521	ring finger protein 7 (RNF7), mRNA /cds=(53,394)	1	TTGAGAGAACTTTTTCATGCTTATG GTTGATCAGTTAAAAAGAATGTT
3132	Table 3A	Hs.279919	NM_014248	7657507	ring-box 1 (RBX1), mRNA /cds=(8,332)	1	TGCTGTTTCTGTAGCCATATTGTATTC TGTGTCAAATAAAGTCCAGTTGG
3133	Table 3A	Hs.74711	NM_014280	7657610	splicing factor similar to dnaJ (SPF31), mRNA /cds=(7,801)	1	ACGCCACCCAAACCTTCACTTTCCA AAGAGCTAGCCGTCTCCACCCAG
3134	Table 3A	Hs.227823	NM_014287	10947030	pM5 protein (PM5), mRNA /cds=(0,3668)	1	GCATCTGAGATCCTGTTGGAAACAC AGCAACCTGTATTCAATTATAGGA
3135	Table 3A	Hs.54609	NM_014291	7657117	glycine C-acetyltransferase (2-amino-3-ketobutyrate coenzyme A ligase) (GCAT), mRNA /cds=(3,1262)	1	GGACGTGACCTGTGCTGAGGGCTGT GAGAATGTGAACCAACAGGTGAAA
3136	Table 3A	Hs.10729	NM_014306	7657014	hypothetical protein (HSPC117), mRNA /cds=(75,1592)	1	GCCATCAGATTGATCTTCTTCACACC AAGCTCTGTTTACATTCAGAGAGG
3137	literature	Hs.5212	NM_014311	7657596	cDNA FLJ10927 fis, clone OVARC1000468 /cds=UNKNOWN	1	CCTTTCCTCAGGGACCAAGACAAA GCATGGGACATGAAATTAAGAGTG
3138	Table 3A	Hs.278994	NM_014313	7657594	Rhesus blood group, CcEe antigens (RHCE), mRNA /cds=(0,1253)	1	AAGCATGATTCCCAACAAGGCAAGT ATCAGTGATTGTAATTTCTCTGT

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3139	Table 3A	Hs.20597	NM_014315	7657300	host cell factor homolog (LCP), mRNA /cds=(316,1536)	1	ACCTGTTGGTTTAAATGTGCATGTGA
3140	Table 3A	Hs.7258	NM_014319	7706606	integral inner nuclear membrane protein (MAN1), mRNA /cds=(6,2741)	1	ATGGCCTAGAGAACCTATTTTGT
3141	Table 3A	Hs.76556	NM_014330	9790902	protein phosphatase 1, regulatory (inhibitor) subunit 15A (PPP1R15A), mRNA /cds=(240,2264)	1	CCGACCAAGATCCCTCCCTGCAAGA
3142	Table 3A	Hs.38738	NM_014343	7656980	claudin 15 (CLDN15), mRNA /cds=(254,940)	1	CAGATGGGAATGTGTAATAAATA
3143	Table 3A	Hs.48433	NM_014345	7657183	endocrine regulator (HRIHFB2436), mRNA /cds=(621,6920)	1	GGGAGCGCTGGCTGAGACCACTGG
3144	Table 3A	Hs.17839	NM_014350	7657123	TNF-induced protein (GG2-1), mRNA /cds=(197,769)	1	TTTGCCTATAATTTATTAACATT
3145	Table 3A	Hs.283737	NM_014366	7657047	AD-017 protein (LOC55830), mRNA /cds=(118,1233)	1	GGACGGTGTCCCGCACGTTTGTATT
3146	Table 3A	Hs.97101	NM_014373	7657135	putative G protein-coupled receptor (GPCR150), mRNA /cds=(321,1337)	1	GTGTATAAATACATTCAATAATA
3147	literature	Hs.279843	NM_014381	7657338	mutL (E. coli) homolog 3 (MLH3), mRNA /cds=(114,4403)	1	ATCCTTTCCTCAACCTCCTCTTCC
3148	Table 3A	Hs.182470	NM_014394	7657479	PTD010 protein (PTD010), mRNA /cds=(129,1088)	1	CAATTAATTTCAACCATAGTACGA
3149	Table 3A	Hs.128342	NM_014408	7657252	potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCNMB3L), mRNA /cds=(243,1916)	1	GCCAGCTATGTCTCTAGGAAATGAC
3150	Table 3A	Hs.27258	NM_014412	7656951	calyculin binding protein (CACYBP), mRNA /cds=(117,803)	1	AGACCCAACCACGACCAATAACA
3151	Table 3A	Hs.301956	NM_014415	7657702	zinc finger protein (ZNF-U69274), mRNA /cds=(161,3322)	1	CTGTAAAAAGACAATTCATCTCATTGT
3152	Table 3A	Hs.14125	NM_014454	7657436	p53 regulated PA26 nuclear protein (PA26), mRNA /cds=(11,1666)	1	GAGTGGAAAGTAGTTATCTGGAAAT
3153	Table 3A	Hs.326248	NM_014456	7657448	cDNA: FLJ22071 fis, clone HEP11691 /cds=UNKNOWN	1	GCATTTCCAGATGTGTCTTTTGAGG
3154	Table 3A	Hs.111632	NM_014463	7657314	Lsm3 protein (LSM3), mRNA /cds=(29,337)	1	GCTATACCAGTATTAATAAGTAGTGT
3155	Table 3A	Hs.127011	NM_014464	7657644	tubulointerstitial nephritis antigen (TIN-AG), mRNA /cds=(1,1431)	1	CCAGGGTTTCTGCACCTGGTCCCTCT
3156	Table 3A	Hs.300684	NM_014478	7656976	calcitonin gene-related peptide-receptor component protein (CGRP-RCP), mRNA /cds=(61,507)	1	TTTCCCTTCAGTCTTCTTCACTTC
3157	literature	Hs.154149	NM_014481	7656891	Homo sapiens, apurinic/apyrimidinic endonuclease(APEX nuclease)-like 2 protein, clone MGC:1418 IMAGE:3139156, mRNA, complete cds /cds=(38,1594)	1	ACACTGCTACACCATTACTTTCTTGA
3158	Table 3A	Hs.120766	NM_014487	13384595	nucleolar cysteine-rich protein (HSA6591), mRNA /cds=(173,1135)	1	GACATTTTGAAGTCCTTTGATACA
3159	Table 3A	Hs.296433	NM_014499	10092632	putative purinergic receptor (P2Y10), mRNA /cds=(0,1019)	1	TGAATAACTAGTGATACCCCTCAATAA
3160	Table 3A	Hs.187660	NM_014504	7657485	putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA /cds=(77,1552)	1	AACAGGGATTGCCAAGAAGGGAAC
3161	db mining	Hs.278457	NM_014512	7657276	killer cell immunoglobulin-like receptor, three domains, short cytoplasmic tail, 1 (KIR3DS1), mRNA /cds=(11,1174)	1	ACCTTTAACATGTAAAGATGCTCACC
3162	Table 3A	Hs.239720	NM_014515	7657384	CCR4-NOT transcription complex, subunit 2 (CNOT2), mRNA /cds=(115,1737)	1	TTGTTACAGAAGAGAATAAACCAAGT
3163	Table 3A	Hs.17667	NM_014521	7657561	SH3-domain binding protein 4 (SH3BP4),	1	TATGTCATAAATGTAAATAAAAGAT
3164	Table 3A	Hs.275243	NM_014624	9845517	S100 calcium-binding protein A6 (calyculin) (S100A6), mRNA /cds=(102,374)	1	GTTGAATCTTGTGAAAGCGCGG
3165	Table 3A	Hs.173288	NM_014633	7661949	KIAA0155 gene product (KIAA0155), mRNA /cds=(86,3607)	1	TTGTATTCTGGAAGCGTGAATTGCTT
3166	Table 3A	Hs.170307	NM_014638	7662069	Ral guanine nucleotide exchange factor RalGPS1A (RalGPS1A), mRNA /cds=(267,1940)	1	TTGAAGTCTGTCAGTATTACTGTT
3167	Table 3A	Hs.323580	NM_014644	11036643	cDNA FLJ10757 fis, clone NT2RP3004578, highly similar to mRNA for KIAA0477 protein : /cds=UNKNOWN	1	TTTGTAAAGCGAAGAGATGGAGCTC
3168	Table 3A	Hs.166318	NM_014646	7662021	lipin 2 (LPIN2), mRNA /cds=(239,2929)	1	GTCTTAAACCAGAGAGCTAGTGAAT
3169	Table 3A	Hs.323712	NM_014664	7662203	KIAA0815 gene product (KIAA0815), mRNA /cds=(237,2927)	1	ACTCACAACTCTTAAAGCTAAATGGT
3170	Table 3A	Hs.132853	NM_014666	7661967	KIAA0171 gene product (KIAA0171), mRNA /cds=(101,1978)	1	ATTTTCATTITTTCTCAAGCTCC
3171	Table 3A	Hs.155291	NM_014670	7661849	KIAA0005 gene product (KIAA0005), mRNA /cds=(80,1339)	1	AGTTTAGCAATATGACATCTTGGTG

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3172	Table 3A	Hs.154332	NM_014674	7662001	KIAA0212 gene product (KIAA0212), mRNA /cds=(58,2031)	1	AAAAGTATAGAGTTGGAACTCTGGG AAAACTTACGGAAATACAGAAATG
3173	Table 3A	Hs.151791	NM_014679	7661899	KIAA0092 gene product (KIAA0092), mRNA /cds=(53,1477)	1	ATGTGTCAACCCATTTCAGCTATT AAAACTCCTGTTATCTCCTTGT
3174	Table 3A	Hs.186840	NM_014686	7662075	KIAA0355 gene product (KIAA0355), mRNA /cds=(838,4050)	1	TACAATGCTCCAACTGGAACTCTA CATTTTGTATCTTTTAAAGCTCCT
3175	Table 3A	Hs.111894	NM_014713	13518239	lysosomal-associated protein transmembrane 4 alpha (LAPTM4A), mRNA /cds=(148,849)	1	GTGACTTGACTGTGGAAGATGATGGT TGCATGTTTCTAGTTTGTATATGT
3176	Table 3A	Hs.181418	NM_014730	7661947	KIAA0152 gene product (KIAA0152), mRNA /cds=(128,1006)	1	CCTTCCATGTCCCACCCCACTCCAC CAAAAAGTACAAAATCAGGATGTT
3177	Table 3A	Hs.81892	NM_014738	7661905	KIAA0101 gene product (KIAA0101), mRNA /cds=(61,398)	1	TGGTGTGTTGATTATTGGAATGGTGCC ATATTGTCACTCCTTCTACTTGCT
3178	Table 3A	Hs.80905	NM_014737	7661963	Ras association (RalGDS/AF-6) domain family 2 (RASSF2), mRNA /cds=(196,1176)	1	ACAGGGCCTCAGCAAGGAGCCATA CATTTTGTAAACATTTTGTATATGT
3179	Table 3A	Hs.108920	NM_014739	7661957	HTD18 mRNA, complete cds /cds=(451,1179)	1	GGCTAAACGATTCTTACTCAGTGTGA TGTATAATGATGCAACAGGGACCC
3180	Table 3A	Hs.79768	NM_014740	7661919	KIAA0111 gene product (KIAA0111), mRNA /cds=(214,1449)	1	TAATGGGGTTTATATGGACTTCTCT CATAAATGGCCTCGCTCTCCCT
3181	Table 3A	Hs.77724	NM_014749	7662189	KIAA0586 gene product (KIAA0586), mRNA /cds=(274,4875)	1	ATACCTTCTGAACGGGAAGAGACAGC CAGCACAGTGTATGCCACTGGT
3182	Table 3A	Hs.77665	NM_014752	7661907	KIAA0102 gene product (KIAA0102), mRNA /cds=(307,678)	1	TTCCACTAGTATATCCCTGTTGATTG TTTGTGCCCTTTTAACTGCCA
3183	Table 3A	Hs.77329	NM_014754	7662646	phosphatidylserine synthase 1 (PTDSS1), mRNA /cds=(102,1523)	1	TCATCTGTGCCATGCTCTAGAACCTT GACCTTGATAGTTTACCACGCTGT
3184	Table 3A	Hs.76986	NM_014757	13376996	mastermind (drosophila)-like 1 (MAML1), mRNA /cds=(263,3313)	1	ACTGCCCTTAACCTCTGGTATACACCA AAAAGAAATCTTTACTTTCTTGT
3185	Table 3A	Hs.75824	NM_014761	7661971	KIAA0174 gene product (KIAA0174), mRNA /cds=(63,1157)	1	AGGCAGCCTTTCTTTTAACTTTTCA TGGTTTGTATTTGTAGCTCAGT
3186	Table 3A	Hs.75574	NM_014763	7661911	mitochondrial ribosomal protein L19 (MRPL19), mRNA /cds=(34,876)	1	CCAGAATGGTCTTAAATGAGCATGGA ACCTGAGCAAGGGAATGAGGTGGG
3187	Table 3A	Hs.75416	NM_014764	7661885	DAZ associated protein 2 (DAZAP2), mRNA /cds=(69,575)	1	TCTCTCTTACACTGTGGTGCACCTTA ACTTGTGGAATTTTATACTAAAA
3188	Table 3A	Hs.74583	NM_014767	7662035	KIAA0275 gene product (KIAA0275), mRNA /cds=(316,1590)	1	ACTCAGCCTAAGGAACCAAGTACACT CCACACATGCATAAAGGAAATCAA
3189	Table 3A	Hs.52526	NM_014779	7662235	KIAA0669 gene product (KIAA0669), mRNA /cds=(1016,3358)	1	TGTCAAATAAAGAGAACGAACAGGT AGTTTGGTGGAGTCTTGTGTTGAG
3190	Table 3A	Hs.28020	NM_014805	7662293	KIAA0768 gene product (KIAA0768), mRNA /cds=(116,1939)	1	TTTGCATCATGTAGTCATTGAGTGAG GGGGAGATATAAGCCAAGGATTTT
3191	Table 3A	Hs.23488	NM_014814	7661913	KIAA0107 gene product (KIAA0107), mRNA /cds=(25,1194)	1	GCTTACTTCAAGTGTGGCAGGTCA GCTGTATAAAATAAATACTGCATT
3192	Table 3A	Hs.279849	NM_014819	7662123	KIAA0438 gene product (KIAA0438), mRNA /cds=(117,2243)	1	TGTAATGGTGGTGTATTTGTCTATAA CCCCAGCCCATCAATTTCTGTCT
3193	Table 3A	Hs.17969	NM_014827	7662231	KIAA0663 gene product (KIAA0663), mRNA /cds=(213,2645)	1	AGTCAATGTTTCGTGTTCCGCATTATT TGAACCATTTGCCCTTACAGAAA
3194	Table 3A	Hs.194035	NM_014828	7662273	KIAA0737 gene product (KIAA0737), mRNA /cds=(32,1897)	1	AGGGAGCAGTGCTTTTGGGTCTAG AACCTGTTGAGTTTCTAATGAATAT
3195	Table 3A	Hs.173802	NM_014832	7662197	KIAA0603 gene product (KIAA0603), mRNA /cds=(347,4246)	1	AATGACTGTGTATAGCTCAGTGTGCC CTTGAATCCATCAGTTTCTTAA
3196	Table 3A	Hs.15087	NM_014837	7662023	KIAA0250 gene product (KIAA0250),	1	TGTTTTGTCTCTGGGTTTGTTTTTT GTTTTTGTCTGTGCAAGACCTGC
3197	Table 3A	Hs.7764	NM_014851	7662139	KIAA0469 gene product (KIAA0469), mRNA /cds=(184,1803)	1	GGCTTCCATGTCCAGAACTCCTGCTTA AGGTTTTAGGGTACCTTCAGTACT
3198	Table 3A	Hs.6684	NM_014856	7662151	KIAA0476 gene product (KIAA0476), mRNA /cds=(568,4728)	1	CCTGACCTGTGCAATAAGGATTGTTC CCTGCGAAGTTTGTGGTGTGATGA
3199	Table 3A	Hs.6338	NM_014859	7662241	KIAA0872 gene product (KIAA0872), mRNA /cds=(300,2756)	1	GAGTCTGGGGTAAGGGTGGGGGTTG AAAGTTGTTATCTTAAATACATGT
3200	Table 3A	Hs.5737	NM_014864	7662149	KIAA0475 gene product (KIAA0475), mRNA /cds=(336,1565)	1	TTGATCTGCCAAGGATTTCCCTCAG AGCTGTTGCACAGACAGAGATTGT
3201	Table 3A	Hs.5094	NM_014868	7662652	ring finger protein 10 (RNF10), mRNA /cds=(698,2983)	1	GGGGGTTCCCAATGTGAGGGGGA ACCAAGAAATTTTAAATACAGTGT
3202	Table 3A	Hs.273397	NM_014871	7662257	KIAA0710 gene product (KIAA0710), mRNA /cds=(203,3550)	1	TGCCTGTCCCAAGTTTGTTCATTTT TTAAAAATTTGTTGTAACCTGCA
3203	Table 3A	Hs.3085	NM_014877	7661883	helicase KIAA0054 (KIAA0054), mRNA /cds=(145,5973)	1	TATTGTTACATATGTTTGCATCAAGCT AGCAGCCAAGAGGTTAATTGTGC
3204	Table 3A	Hs.1528	NM_014882	7661881	KIAA0053 gene product (KIAA0053), mRNA /cds=(193,2109)	1	AAACCAGAACAGCAACAACTGTAT TTATGCAAGCAAAATTTGATGAGAA
3205	Table 3A	Hs.8170	NM_014886	7662676	hypothetical protein (YR-28), mRNA /cds=(82,864)	1	TGATGTTTCTGAATACTACCAACAG CCATACATGTCTGCAATGAAGAGA
3206	Table 3A	Hs.23518	NM_014887	7666970	hypothetical protein from BCRA2 region (CG005), mRNA /cds=(165,1916)	1	TATCATCTCTCTTCTCAACCCATCTC CCTAACCCACATGCTTGCCAGTT
3207	Table 3A	Hs.239189	NM_014905	7662327	glutaminase (GLS), mRNA /cds=(19,2028)	1	TTCTGAAATTGGGAAACATTTATTTA AATGCAATCAGGTAGTGTGCTT
3208	Table 3A	Hs.131915	NM_014913	7662345	KIAA0863 protein (KIAA0863), mRNA /cds=(185,3580)	1	GACTGAATTTGACATCTGTTAGCTGT GTATGTAGCTCATACATCAAGAGT
3209	Table 3A	Hs.110488	NM_014918	7662433	KIAA0990 protein (KIAA0990), mRNA /cds=(494,2902)	1	TTGACTTTTTCAGAACCATTTTGTCTC ATTATTCCTGTTTGTAGCTGAAGA

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3210	Table 3A	Hs.104305	NM_014922	14719827	death effector filament-forming Ced-4-like apoptosis protein (DEFCAP), transcript variant B, mRNA /cds=(522,4811)	1	CTGGCTGTGTACAGGGTGAGCCCC AAAATTGGGGTTCAGCGTGGGAGGC
3211	Table 3A	Hs.211576	NM_005546	5031810	IL2-inducible T-cell kinase (ITK), mRNA /cds=(2021,3883)	1	AATGGTCCCGTGTGTTGTAGAGAAC TCCCTTATACAGAGTTTGGTTCT
3212	Table 3A	Hs.70266	NM_014933	7662369	yeast Sec31p homolog (KIAA0905), mRNA /cds=(53,3715)	1	TTCTTTCATGTCTCCCTACTTCTCA GTGTCAATCAGATTAAAGTGTGT
3213	Table 3A	Hs.42959	NM_014939	7662447	KIAA1012 protein (KIAA1012), mRNA /cds=(57,4384)	1	TTTGAACTTTGGTCATAGAGTCTTCAT ATTTCAAGTATTTGGTGGTCCCTA
3214	Table 3A	Hs.24083	NM_014950	7662437	KIAA0997 protein (KIAA0997), mRNA /cds=(262,2196)	1	ACCCTAGAGTTACTCTCTTTGGGAA CATAAGGAGGTATACAGAAGTCA
3215	Table 3A	Hs.323346	NM_014953	7662443	KIAA1008 protein (KIAA1008), mRNA /cds=(93,2879)	1	TTGATGTGTACAAAACTTACTCATT TGATTTCCCCACCCCGCCCAAC
3216	Table 3A	Hs.10031	NM_014959	7662403	KIAA0955 protein (KIAA0955), mRNA /cds=(313,1608)	1	TCAGGGCGTTTGAATGTGAATTAGGA CCAGCGCAATGAATGCTCAAGTTG
3217	Table 3A	Hs.227133	NM_014977	7662237	KIAA0670 protein/acinus (KIAA0670), mRNA /cds=(327,4352)	1	AGTTCCAGTCTCTCTCTGCTGGCAG CCCTTGCCTCTTCCACAGGTTT
3218	Table 3A	Hs.184627	NM_014999	7661921	KIAA0118 protein (KIAA0118), mRNA /cds=(255,932)	1	GTAAGTACAGGCACTGCTCGCAGAA GGAACACAGATTGTAGAGATTAAACA
3219	Table 3A	Hs.184245	NM_015001	14790189	SMART/HDAC1 associated repressor protein (SHARP), mRNA /cds=(204,11198)	1	TTTTCTCAGCGCAGTTTGTGTTGTGT GTCCATTGGATTACAACTTTAT
3220	Table 3A	Hs.151411	NM_015057	7662379	KIAA0916 protein (KIAA0916), mRNA /cds=(146,14071)	1	TGCCTCATTATCTTGCAGCTGTAAAC ATATTGGAATGTACATGTCAATAA
3221	Table 3A	Hs.132942	NM_015071	7662207	GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0621 protein (KIAA0621), mRNA /cds=(423,2867)	1	GCCATAGCCTGAATCTTTAGGGTGA TTAAGGTCAGCCTCTCACTCTTCC
3222	Table 3A	Hs.306117	NM_015125	11056033	capicua protein (CIC) mRNA, complete cds /cds=(40,4866)	1	AGCCGCCTTCCAGGCCCGCTATGCA GACATCTTTCCCTCCAGGTTTGTG
3223	Table 3A	Hs.79337	NM_015148	8923825	KIAA0135 protein (KIAA0135), mRNA /cds=(1803,3791)	1	AGCAGCTTTCTTCAAGTCTGCTCTTTA GCCCTTTGTGGTTAATCTCTCAGT
3224	Table 3A	Hs.11000	NM_015344	7662509	MYO47 protein (MYO47), mRNA /cds=(84,479)	1	TGCAGTGTACACACATTACCATCTTCT TATGGAAAGAAAACCTTTTATGATGA
3225	Table 3A	Hs.287586	NM_015384	7661841	cDNA FLJ13648 fis, clone PLACE1011340, weakly similar to IDN3-B mRNA /cds=UNKNOWN	1	ATAGAGGAGGAGGCACTTCAGGGGT GAGGCGGAGGAGGAGTCAACGTATT
3226	Table 3A	Hs.105460	NM_015393	7661631	DKFZP564O0823 protein (DKFZP564O0823), mRNA /cds=(170,904)	1	ATACCCACACAGCACTGGTCCACTG CTTTACTGTCTGTTGATATATGGC
3227	Table 3A	Hs.99843	NM_015400	7661691	DKFZP586N0721 protein (DKFZP586N0721), mRNA /cds=(728,1151)	1	AGATTTGTGCTCTCTCATTCCCTCTCT TCCTCTTGTAAGTGCCCTTCTAA
3228	Table 3A	Hs.75884	NM_015416	7661659	DKFZP586A011 protein (DKFZP586A011), mRNA /cds=(330,632)	1	GCACTGTTTTTAAACCAAGTAAAGA CTGCTTGAAACCTGTGATGGAAA
3229	Table 3A	Hs.64595	NM_015423	7661649	aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase (AASDHPPT), mRNA /cds=(166,1095)	1	AGATTTCCCTCAGTTTCCATTGACTT AGATCAGGTTACAGAGAAAGGCA
3230	Table 3A	Hs.48320	NM_015435	13491169	mRNA for ring-IBR-ring domain containing protein Dorfin, complete cds /cds=(317,2833)	1	AGATCGAGATCTTCAGTCTCTGCTT CATCTGTGAGCTTGCCCTTCAGTCA
3231	Table 3A	Hs.12305	NM_015509	7661639	DKFZP566B183 protein (DKFZP566B183), mRNA /cds=(351,749)	1	AGTGACTAAATACTGGGAACCTATTT TCTCAATCTTCTCCATGTTGTGT
3232	Table 3A	Hs.6880	NM_015530	7661569	DKFZP434D156 protein (DKFZP434D156), mRNA /cds=(230,1384)	1	TGGCACTCTGTGGCTCCTTGTAGTAT TATAGCTATACTGGGAAAGCATAG
3233	Table 3A	Hs.187991	NM_015626	7661595	DKFZP564A122 protein (DKFZP564A122), mRNA /cds=(2570,2908)	1	TTGGTGAGTTGCCAAAGAAGCAATAC AGCATATCTGCTTTGCCCTTCTGT
3234	Table 3A	Hs.156764	NM_015646	7661677	RAP1B, member of RAS oncogene family (RAP1B), mRNA /cds=(148,702)	1	AATTGACCAACCTAATGTTACAACCTA CTTTGAGGTGGCCAAATGTAACT
3235	Table 3A	Hs.44563	NM_015697	7661549	Homo sapiens, Similar to RIKEN cDNA 2310002F18 gene, clone MGC:10413 IMAGE:3954787, mRNA, complete cds /cds=(16,1131)	1	CTACTACGCTGCCCTGGGTGCTGTA GGAGCCCATCTGACTCACCAGAAAT
3236	Table 3A	Hs.5324	NM_015702	7661547	hypothetical protein (CL25022), mRNA /cds=(157,1047)	1	AAGGCCTCAGTTTAAATTATTTTCTC CCAAAATAATACACATTTGGT
3237	Table 3A	Hs.110707	NM_015726	7657147	H326 (H326), mRNA /cds=(176,1969)	1	GGTGGGGTGATAGGGTGGGCTAAAA ACCATGCACTCTGGAAATTTGTGTA
3238	Table 3A	Hs.25674	NM_015832	7710144	methyl-CpG binding domain protein 2 (MBD2), transcript variant testis-specific, mRNA /cds=(229,1137)	1	AGAGGCAGCTCTAGACAGAGTTGCT TAATGAAAGGGTTTGTAACTTT
3239	Table 3A	Hs.278573	NM_015874	7706215	H-2K binding factor-2 (LOC51580), mRNA /cds=(238,1500)	1	GCTCAGTTCATATTTTCATCCGTGAA AAACTTGCAATACGAGCAGTTTCA
3240	Table 3A	Hs.104840	NM_015898	7705374	HIV-1 inducer of short transcripts binding protein (FBI1), mRNA /cds=(0,1754)	1	CAACGGCCAGGAGAAAGCACTTTAAG GACGAGGACGAGGACGAGGACGTGG

Table 8

3241	Table 3A	Hs.287414	NM_015908	7706235	transcriptional intermediary factor 1 gamma (TIF1GAMMA), transcript variant alpha, mRNA /cds=(84,3467)	1	ATACAGCCCCGGCAGAAAACGCCTA AAGTCAGATGAGAGACCAGTACATA
3242	Table 3A	Hs.145956	NM_015919	7706241	zinc finger protein mRNA, complete cds /cds=(1073,3133)	1	ACCAGAAACTTCAAATGTGTACAAAA AGATGAGCAGAACTATCCCGAGGT
3243	Table 3A	Hs.279813	NM_015932	7705428	hypothetical protein (HSPC014), mRNA /cds=(82,507)	1	AAAGCGAAGTCATGGGAGAGCCACA CTTGATGGTGGAAATATAAACTTGGT
3244	Table 3A	Hs.171774	NM_015933	7705430	hypothetical protein (HSPC016), mRNA /cds=(38,232)	1	TCCCTGCCATAACATCTTTGCCACG TATAGCTGGAATTAAGTGTGTCT
3245	Table 3A	Hs.119908	NM_015934	7706253	nucleolar protein NOP5/NOP58 (NOP5/NOP58), mRNA /cds=(0,1589)	1	CTGGTGACTCCACACTTCCAACTGCG TCTAAAAACGCAAAATAGAACAG
3246	Table 3A	Hs.84038	NM_015937	7706257	CGI-06 protein (LOC51604), mRNA /cds=(8,1730)	1	TGTGTAGTGGATGGAGTTTACTGTTT GTGGAATAAAACGGCTGTTTCCG
3247	Table 3A	Hs.5798	NM_015946	7705599	pelota (Drosophila) homolog (PELO), mRNA /cds=(259,1416)	1	ACAGGGATTCTTATGTTCTTGCGTA CACTAGATATTTGTGATTGGCAA
3248	Table 3A	Hs.7236	NM_015953	7705715	eNOS interacting protein (LOC51070), mRNA /cds=(44,949)	1	AGGCCTGAGTGTGTGCGGGAGACCA AATAAACCGGCTTGGGTGCCAAA
3249	Table 3A	Hs.7104	NM_015995	7706289	mRNA: cDNA DKFZp761P06121 (from clone DKFZp761P06121) /cds=UNKNOWN	1	AAGAAAGAAGAGAGAGAACTTGATGC CAAGTCCACGAAAAACAATTTTT
3250	Table 3A	Hs.6153	NM_016001	7705764	CGI-48 protein (LOC51098), mRNA /cds=(107,1672)	1	GATCCAGCTGTGCTTAAGAGCCAGTA ATGCTTAAATAACATGTGGCAGC
3251	Table 3A	Hs.7194	NM_016007	7706297	CGI-74 protein	1	AAGCACTGTGTTTTTGTGTGTGGA GTATAAAGGCTACACCCTTATTG
3252	Table 3A	Hs.318725	NM_016018	7705782	CGI-72 protein (LOC51105), mRNA /cds=(69,1400)	1	CCTTTTCTACAGAACTCATCAGGCAT GGGTAAGGTGGCTTAACGCTGAGAT
3253	Table 3A	Hs.110803	NM_016039	7708321	CGI-99 protein (LOC51637), mRNA /cds=(161,895)	1	TGGGTATGTTCTAGAGATTACCACC ATTGCTTATTGCTTTTTCTTTAA
3254	Table 3A	Hs.286131	NM_016041	7705603	CGI-101 protein (LOC51009), mRNA /cds=(6,635)	1	TCTTCTTGATAGTAGGAGCCATGGTG TAAATGGAAGTTTCAGAGAGGACA
3255	Table 3A	Hs.271614	NM_016049	7705615	CGI-112 protein (LOC51016), mRNA /cds=(158,784)	1	GTGGGTGGTCCCACTAATGAAATG GAAATGCCTGAGCCAGGCCAGCGG
3256	Table 3A	Hs.283670	NM_016056	7706334	CGI-119 protein (LOC51643), mRNA /cds=(0,776)	1	AATCTATTCTGCACCTGTTACGGTT TCTGGAAGCAGTTAATAAAAAAGT
3257	Table 3A	Hs.181271	NM_016057	7706336	CGI-120 protein (LOC51644), mRNA /cds=(37,570)	1	GCATGGAGTCAGGAGAAAACACCTT CATAACTGCTCTGTGCAAGAGG
3258	Table 3A	Hs.27693	NM_016059	7706338	peptidylprolyl isomerase (cyclophilin)-like 1 (PPI1), mRNA /cds=(227,727)	1	ACAAATGCCCTGTGAATCAATAGGT GACTACTTACTACATGGAACCA
3259	Table 3A	Hs.184542	NM_016061	7706340	CGI-127 protein (LOC51646), mRNA /cds=(125,490)	1	TGATTATATGAGATTCTAGTAGCA TGCCCTTACCTACAGCACTATGTGC
3260	Table 3A	Hs.32826	NM_016063	7705623	CGI-130 protein (LOC51020), mRNA /cds=(63,575)	1	GGTCATTGAGCCTCAGGTAGGGAATA TATCAACCCGATTCTCTCTCTCT
3261	Table 3A	Hs.5887	NM_016090	9994184	RNA binding motif protein 7 (RBM7), mRNA /cds=(21,821)	1	TTTCAAAGTGCCAGACTGTGTACAA AGACACATGTAATGGAGATTGTAC
3262	Table 3A	Hs.119503	NM_016091	7705432	HSPC025 (HSPC025), mRNA /cds=(33,1727)	1	AGGACCGAAGTGTTCAGGTGGATCT CAGTAAAGGATCTTTGGAGCCAGA
3263	Table 3A	Hs.7953	NM_016099	7705820	HSPC041 protein (LOC51125), mRNA /cds=(141,455)	1	AGTTTCACTGTCAGAGATATTGTAGG TGCTAATACTGGATTTCGTCTCAG
3264	Table 3A	Hs.27023	NM_016106	7706370	vesicle transport-related protein (RA410), mRNA /cds=(7,1929)	1	AGTTAGAAGCAATATGTTTCCCTTC TCTGTAACAGTGTCTCAACAGTGA
3265	db mining	Hs.306603	NM_016115	7705830	cDNA FLJ11517 fis, clone HEMBA1002337 /cds=UNKNOWN	1	AGCTGCCACTCCAGAACGCTACAT AATTATTGCTCTATGAAGACGTT
3266	Table 3A	Hs.142295	NM_016123	7705840	putative protein kinase NY-REN-64 antigen (LOC51135), mRNA /cds=(49,1431)	1	GCCACTAATAACATTGGGCTAATATC TGCTGTGCTCTCTGACAGGTAGT
3267	Table 3A	Hs.279921	NM_016127	7706384	HSPC035 protein (LOC51669), mRNA /cds=(16,1035)	1	AGCATGCAGTTCTCTGTGAAATCTCA AATATTGTTGTAATAGTCTGTTTC
3268	Table 3A	Hs.102950	NM_016128	11559928	coat protein gamma-cop (LOC51137), mRNA /cds=(15,2639)	1	TGAATCTATCCCCAGAGAACCATCT TATCCCTGTAATAATCAGCATGT
3269	Table 3A	Hs.272398	NM_016135	7706730	transcription factor ets (TEL2), mRNA /cds=(75,1100)	1	GTGCTTCCAGGCGGCACTGACAGCC TCAGTAACAATAAAAAAATGGTAG
3270	Table 3A	Hs.108969	NM_016145	7706664	PTD008 protein (PTD008), mRNA /cds=(233,553)	1	GTCCATGTTCTAGGGGTATTTCATT GCTTCTCGTTGAAACCTGTTGTT
3271	Table 3A	Hs.279901	NM_016146	7706666	PTD009 protein (PTD009), mRNA /cds=(257,916)	1	TAGGTCCATAAATGTTGTAATAAAT TCCTTTGATCTGGTGTTCGCT
3272	Table 3A	Hs.306706	NM_016154	7706672	cDNA: FLJ21192 fis, clone COL00107, highly similar to AF165522 ras-related GTP-binding protein 4b (RAB4B) mRNA /cds=UNKNOWN	1	GCTAGTACCTGTTATTATTACCTGG AGGCCTGTCCAGCACCCACCTTAC
3273	Table 3A	Hs.279518	NM_016160	4502146	amyloid beta (A4) precursor-like protein 2 (APLP2), mRNA /cds=(72,2363)	1	CCCACTATGCACAGATTAACTTCAC CTACAACTCCTTAATATGATCTG
3274	Table 3A	Hs.75251	NM_016166	7706636	DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1 (DDXBP1), mRNA /cds=(96,2051)	1	TGTGCTCTGTTTACCTTACTCTGTTT AGAAAAGTATACAAGCGTGTGTTT
3275	Table 3A	Hs.241578	NM_016200	7706424	U6 snRNA-associated Sm-like protein LSm8 (LOC51691), mRNA /cds=(82,372)	1	TGAGTGTGTCTCTGGATTGTTGACCCC TTATTGATTCAATTGTAATGTAA
3276	literature	Hs.135756	NM_016218	7705343	polymerase (DNA-directed) kappa (POLK), mRNA /cds=(172,2784)	1	ACATTGTGAAGGCTCTCAAGATTTC ACACATGCCTATATTATCATAAGA



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3277	Table 3A	Hs.7905	NM_016224	7706705	SH3 and PX domain-containing protein SH3PX1 (SH3PX1), mRNA /cds=(43,1830)	1	TCCGCATCCATTATTTAAACCAAGTGG AAATTGTCTCTATTTTGGAAAGT
3278	Table 3A	Hs.108636	NM_016227	7705321	membrane protein CH1 (CH1), mRNA /cds=(124,4341)	1	ACGGAGCTGTAGTGCCATTAGAAACT GTGAATTTCCAAATAAATCTGAAC
3279	Table 3A	Hs.5741	NM_016230	7705898	flavohemoprotein b5+b5R (LOC51167), mRNA /cds=(6,1469)	1	AGCCTTCAGTTCTTAAATGAATCAA ATGTTCTTCAGTACAGGTAACCT
3280	Table 3A	Hs.127561	NM_016239	7705900	myosin XVA (MYO15A), mRNA /cds=(338,10930)	1	CCAGACCCCATCAGTTGATGGGCC ACACAAGTTTGAGAGTGGTACAAGG
3281	Table 3A	Hs.250646	NM_016252	10442821	baculoviral IAP repeat-containing 8 (BIRC6), mRNA /cds=(0,14489)	1	TCAGGTTAAACCCAGCAGCAGCAAAAG AACTCCCCAGTGACTTCAGTTAT
3282	Table 3A	Hs.107740	NM_016270	7706468	Kruppel-like factor (LOC51713), mRNA /cds=(84,1151)	1	GGTGGGCATTTTGGGCTACCTGGTT CGTTTTTATAAGATTTTGCTGGGT
3283	Table 3A	Hs.8148	NM_016275	7706470	selenoprotein T (LOC51714), mRNA /cds=(138,629)	1	AGTGCAATAACTGTATAGCTTTCC CCCACTCCCAACAAATCAACCCAG
3284	Table 3A	Hs.279586	NM_016283	7706211	adrenal gland protein AD-004 (LOC51578), mRNA /cds=(341,859)	1	AATCATGTTGCAGAACCAAGCAGGTGG ATAGTATATAGGTTTATGCCTGGG
3285	Table 3A	Hs.6406	NM_016289	7706480	MO25 protein (LOC51719), mRNA /cds=(53,1078)	1	GGTGCAGCGTGTGACAGCAGCATTC ATGTTACTCTTACATTGGAATCTG
3286	literature	Hs.182366	NM_016292	7706484	heat shock protein 75 (TRAP1), mRNA /cds=(4,2118)	1	GGACTGACACCAAGATGACAGCCCC CACCTCCTTGAGCTTTATTTACCTA
3287	Table 3A	Hs.14770	NM_016293	7706486	bridging integrator 2 (BIN2), mRNA /cds=(38,1735)	1	ACGACCCATTTTGAAGACTTAAAGC CGGAAGAACACATTTTCAGATTGT
3288	Table 3A	Hs.284164	NM_016301	9994188	protein x 0004 (LOC51184), mRNA /cds=(31,885)	1	AGGAATTACTGTAAACAAATATGTAT GTCCGAAGGGAAAAAGCTGCAAGG
3289	Table 3A	Hs.102897	NM_016302	10047097	CGI-47 protein (LOC51095), mRNA /cds=(131,1348)	1	TCCTGTGGAATCTGATATGCTGGTA GCATGTCAATTGAGGACATGAAG
3290	Table 3A	Hs.284162	NM_016304	10047101	60S ribosomal protein L30 isolog (LOC51187), mRNA /cds=(143,634)	1	ATGGCACTAGGCAGCATTTGTATAGT AACTAATGGCAAAATTCATGGCT
3291	Table 3A	Hs.334811	NM_016312	7706500	Npw38-binding protein NpwBP (LOC51729), mRNA /cds=(143,2068)	1	ATTTGATTAAATTTATTTCCCACTGAC CTAAACTTTCAGTGATTTGTGGG
3292	literature	Hs.110347	NM_016316	7706680	REV1 (yeast homolog)-like (REV1L), mRNA /cds=(212,3967)	1	AAAGCAAGTGTTTGTACATCTTTT CAAAAAGTGCCAAAATTTGTCACT
3293	Table 3A	Hs.83761	NM_016325	7706506	zinc finger protein 274 (ZNF274), mRNA /cds=(401,2266)	1	AATCTGCACTGATATTACATCCACAG TACCACAGTATTTATGTGTATGAA
3294	Table 3A	Hs.16085	NM_016334	7706703	putative G-protein coupled receptor (SH120), mRNA /cds=(103,1470)	1	ATGGTAGCTGAGCCAAACAGCTAGG ATTTCCGTTTTAAGGTTACATGGA
3295	Table 3A	Hs.279918	NM_016391	7705450	hypothetical protein (HSPC111), mRNA /cds=(62,598)	1	AAGCCAGAACCTGCTGTTTTACGGGT GGGTGATGTAATATAGGTGTGAC
3296	Table 3A	Hs.239720	NM_016398	7705464	CCR4-NOT transcription complex, subunit 2 (CNOT2), mRNA /cds=(115,1737)	1	TGACAAATTAGAAGAACGGCCTCACC TGCCATCCACCTTCAACTACAACC
3297	Table 3A	Hs.334788	NM_016406	7705480	hypothetical protein FLJ14639 (FLJ14639), mRNA /cds=(273,689)	1	TCTTTCTGGTTTCTGGAGATAACCCA TCAATAAAAGCTGCTTCTCTGGT
3298	Table 3A	Hs.98289	NM_016440	7705992	VRK3 for vaccinia related kinase 3 (LOC51231), mRNA /cds=(118,1542)	1	GGGACCCCTCCTTACCCTGACTCCTC TGTGCTTTGGTAATAAATTTGTTTT
3299	Table 3A	Hs.3059	NM_016451	7705368	coatomer protein complex, subunit beta (COPB), mRNA /cds=(178,3039)	1	GTCTGTAATGCTGCTCCTCAAGATATA TAATGTTTCATGTACCAAGACCTC
3300	Table 3A	Hs.172918	NM_016466	7706006	hypothetical protein (LOC51239), mRNA /cds=(0,527)	1	GACATCTGCTCCCTCCTCTGCAACA CAGCCCAAGCCCTGAAGGCCATCCG
3301	Table 3A	Hs.171566	NM_016468	7706010	hypothetical protein (LOC51241), mRNA /cds=(0,320)	1	TGGGAAGATCTGCACTCTCTCCAAAG GAAGAAATCCAGAAAGCCTTAAGAC
3302	Table 3A	Hs.75798	NM_016470	7705508	hypothetical protein (HSPC207), mRNA /cds=(0,620)	1	AGCCAGTGATCTCTCTGACTTTCAAT CAGTTTCCAAGCTTGAACAGGGA
3303	Table 3A	Hs.55847	NM_016497	7706044	hypothetical protein (LOC51258), mRNA /cds=(0,386)	1	AAACGCATCCGCTATCTCTACAAACA CTTTAACCGACATGGGAAGTTTCG
3304	Table 3A	Hs.278429	NM_016520	7706556	hepatocellular carcinoma-associated antigen 59 (LOC51759), mRNA /cds=(27,896)	1	TCCTCCAGCTGACAGAAATCCAGG ATGAGATCAGAAGGATACTGGTGT
3305	Table 3A	Hs.183125	NM_016523	7705573	killer cell lectin-like receptor subfamily F, member 1 (KLRF1), mRNA /cds=(64,759)	1	TTCCAGGCTTTTGCTACTCTTCACTC AGCTACAATAAACATCCTGAATGT
3306	Table 3A	Hs.75425	NM_016525	8394498	ubiquitin associated protein (UBAP), mRNA /cds=(172,1680)	1	ACACCTAGTCATAGAAATCAGTCTCT CTGGTTTGTTTGTATTATGTTGT
3307	Table 3A	Hs.239208	NM_016533	7706622	ninjurin 2 (NINJ2), mRNA /cds=(56,484)	1	CAGTGCTTCTCTGCTCCAGGCGCTC AATTTTCCCTTCTGTAAATATGGA
3308	Table 3A	Hs.10071	NM_016551	7706574	seven transmembrane protein TM7SF3 (TM7SF3), mRNA /cds=(37,1749)	1	ACTTTCCGAGGGAGTTTATTATTGAG TCTTTATCTGTGACAGATTGGA
3309	Table 3A	Hs.179152	NM_016562	7706092	tol-like receptor 7 (LOC51284), mRNA /cds=(135,3284)	1	ATAGAGAGGTAATTAATTTGCTGGAG CTCAACTATTTCACAACTTCTGTAA
3310	Table 3A	Hs.18552	NM_016565	7706098	E2IG2 protein (LOC51287), mRNA /cds=(131,421)	1	GTCCACCAAGTATTACCAGGAAAC AAAGAATGTGTTAAGGGATGCTCC
3311	Table 3A	Hs.267182	NM_016569	7708728	T-box 3 (ulnar mammary syndrome) (TBX3), mRNA /cds=(116,1906)	1	TGCTATTTCCTATTTTACCAGAAATG GGGAAGGAGTGCCACTTTCCAGC
3312	Table 3A	Hs.14898	NM_016598	7706132	DHHC1 protein (LOC51304), mRNA /cds=(214,1197)	1	TGCTGCCACTTTTCAATTCTGTCACT GCTTCCACATGGAAACAAATGCA
3313	Table 3A	Hs.24125	NM_016604	7706598	putative zinc finger protein (LOC51780), mRNA /cds=(744,4997)	1	TCACTTTCTGATTTTAAATTTTGTGA AGGGCTGATTGGGATTTCCATGT
3314	Table 3A	Hs.46847	NM_016614	7705261	TRAF and TNF receptor-associated protein (AD022), mRNA /cds=(16,1104)	1	GCATGAAGAGACATAGCCTTTTGT TTGCTAATTGTGAAATGGAAATGC

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3315	Table 3A	Hs.107139	NM_016619	7706157	hypothetical protein (LOC51316), mRNA /cds=(101,448)	1	TGTTGTCCCTGAACCTAGCTAAATGG
3316	db mining	Hs.106826	NM_016621	7706159	cDNA FLJ13196 fis, clone NT2RP3004428, weakly similar to CHROMODOMAIN HELICASE-DNA-BINDING PROTEIN 4 /cds=(385,2289)	1	TGCAACTAGTTTCTCCTTGCTTT TCATAGTGTGAGTGAGGTCCCGTGAG TCTTTGTGAGTCCTTGTGTCATCG
3317	Table 3A	Hs.92918	NM_016623	7705303	hypothetical protein (BM-009), mRNA /cds=(385,1047)	1	GTGCGTAGAATATTACGTATGCATGT TCATGTCTAAAGAATGGCTGTTGA
3318	Table 3A	Hs.70333	NM_016628	7706169	mRNA for KIAA1844 protein, partial cds /cds=(0,1105)	1	CGTGGTTGTGGGAGGGGAAAGGAA AACAGAGCTAGTCAGATGTGAATTG
3319	Table 3A	Hs.71476	NM_016630	13699804	acid cluster protein 33 (ACP33), mRNA /cds=(176,1102)	1	GGACATTGGTTATTTTATGCTTTCTTG GATATAACCATGATCAGAGTGCC
3320	Table 3A	Hs.278027	NM_016733	8051617	LIM domain kinase 2 (LIMK2), transcript variant 2b, mRNA /cds=(315,2168)	1	GCAAGTGTAGGAGTGGTGGGCTGA ACTGGGCCATTGATCAGACTAAATA
3321	literature	Hs.342801	NM_016734	9951919	paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA /cds=(448,1623)	1	AATCAGAAGAGCCTGGAAAAAGACCT AGCCCAACTTCCCTTGTGGGAAAC
3322	Table 3A	Hs.324470	NM_016824	9943847	adducin 3 (gamma) (ADD3), transcript variant 1, mRNA /cds=(31,2151)	1	TCAACAAAGGGGATTTTGTACACATA ACATGGGTATTATAGTTTAACTCT
3323	Table 3A	Hs.77273	NM_016936	9055373	ras homolog gene family, member A (ARHA), mRNA /cds=(151,732)	1	CTTTTGTGCAGCGACTATGTTGGTGT TAGGGGTGGTGTGGAGATTGTATA
3324	Table 3A	Hs.159565	NM_016952	8393083	surface glycoprotein, Ig superfamily member (CDO), mRNA /cds=(0,3722)	1	ATTTATGCCTTAATGTTTCTTCCCC ATTCCCTCCTCCCCCTCGGTAGG
3325	Table 3A	Hs.9082	NM_017426	8393857	nucleoporin p54 (NUP54), mRNA /cds=(25,1542)	1	TTTGATTGTTGTAAGTCATCTGTGGG AGGAGTAAAGAAATCCAAAAGCA
3326	Table 3A	Hs.83551	NM_017459	9665258	microfibrillar-associated protein 2. (MFAP2), transcript variant 1, mRNA /cds=(114,665)	1	CCCCCGTGGGCATGGACACCTTTAT TTTATACAAAATAAAAACAAGTT
3327	Table 3A	Hs.85100	NM_017491	9257258	WD repeat domain 1 (WDR1), transcript variant 1, mRNA /cds=(202,2022)	1	ACTGTAACTAATCTGTCATTGTTTT ACCTTCCTTTTCTTTTCAGTGC
3328	Table 3A	Hs.139262	NM_017523	8923794	XIAP associated factor-1 (HSXIAPAF1), mRNA /cds=(0,953)	1	TACTTGCTGTGGTGGCTTGTGAAAG GTGATGGGTTTTATTGCTTGGGCT
3329	Table 3A	Hs.119018	NM_017544	8923943	transcription factor NRF (NRF), mRNA /cds=(653,1819)	1	AAAGAATTAGTGTATGCTTCTGAAT AAAAGGAGCCAAAGTTGATCAGA
3330	Table 3A	Hs.306195	NM_017601	8922168	over-expressed breast tumor protein (OBTP), mRNA /cds=(0,224)	1	AGGGGGTGTATTTTGTCTTGTCTCGT AGAAATAACAGTGCTGTTTTAAAA
3331	Table 3A	Hs.32922	NM_017632	8923039	hypothetical protein FLJ20038 (FLJ20038), mRNA /cds=(162,1804)	1	AGCTTAAGGTTTTAAAAATGTTGCC GTAATGTTGAACGTCTGTTTGA
3332	Table 3A	Hs.246875	NM_017644	8923060	hypothetical protein FLJ20059 (FLJ20059), mRNA /cds=(25,1290)	1	GGATGCACGTACAGAATACATTCAGC CGTCAGGTAATACATGAAGCAGT
3333	Table 3A	Hs.7942	NM_017657	8923087	hypothetical protein FLJ20080 (FLJ20080), mRNA /cds=(315,3044)	1	GGACAGTTTCTATTGCTTTTCTTTT TCCATCCCTTCCCTACCATCAAA
3334	Table 3A	Hs.26369	NM_017746	8923268	hypothetical protein FLJ20287 (FLJ20287), mRNA /cds=(131,2920)	1	AGACTTACATTACTGCTTTAAGCTGTA TATCACTGGGCATCCCAAGGGC
3335	Table 3A	Hs.8928	NM_017748	8923270	hypothetical protein FLJ20291 (FLJ20291), mRNA /cds=(117,1394)	1	GTCAGGTTAGGTCAAAGCCAGGGAG TGACAGAATCTGGGAATCAAAACA
3336	Table 3A	Hs.7862	NM_017761	8923294	hypothetical protein FLJ20312 (FLJ20312), mRNA /cds=(133,552)	1	CCTCTTGATGCCCTAAGCAGGTAAGCA GATGCCTAAGCTGATTTCTCCAA
3337	Table 3A	Hs.126721	NM_017762	8923298	hypothetical protein FLJ20313 (FLJ20313), mRNA /cds=(344,1699)	1	TGGATCTGTCAAACATCAACATTATGC CTTTAGTCTCATTGTATGAGGTGT
3338	Table 3A	Hs.306668	NM_017774	8923317	cDNA FLJ14089 fis, clone MAMMA1000257 /cds=UNKNOWN	1	ACCTGCCATCATTGGTCTTTACTAAG TGAAGTGACTTCTTTCTTAACAA
3339	Table 3A	Hs.105461	NM_017780	8923329	hypothetical protein FLJ20357 (FLJ20357), mRNA /cds=(35,2083)	1	GCTGCCAAGTGTAGTAATGATGCTTT TAATAAAAGTGACCCATGATATGC
3340	Table 3A	Hs.6631	NM_017792	8923351	hypothetical protein FLJ20373 (FLJ20373), mRNA /cds=(268,849)	1	ACTGTTGTCCCCCACCCTTTTTC TTAAATAAAGTAAAAATGACACCC
3341	Table 3A	Hs.283685	NM_017801	8923369	hypothetical protein FLJ20396 (FLJ20396), mRNA /cds=(107,658)	1	TGTGAATACTGTGTAGCAGGATCTTG AGAGTCCTTGTCTTACATAGGCA
3342	Table 3A	Hs.14220	NM_017827	8923420	hypothetical protein FLJ20450 (FLJ20450), mRNA /cds=(27,1583)	1	AAGAGGCTTCCATCCCTCCTTCCTTC TTTCTCCTACAGTGCTGAGCAAA
3343	Table 3A	Hs.132071	NM_017830	8923426	ovarian carcinoma immunoreactive antigen (OCIA), mRNA /cds=(167,904)	1	GTTGAATTGGGGTGGATGGGGGGAG CAAGCATAATTTTAAAGTGAAGC
3344	Table 3A	Hs.5811	NM_017835	8923438	chromosome 21 open reading frame 59 (C21ORF59), mRNA /cds=(360,776)	1	TCACCAGCTGATGACACTTCCAAAGA GATTAGCTCACCTTCTCCTAGGC
3345	Table 3A	Hs.5080	NM_017840	8923447	mitochondrial ribosomal protein L16 (MRPL16), mRNA /cds=(111,866)	1	CCCACTGAAGTCTTTGGGTAGCTCTT AAGCCATACTAAGGAGCAGCATTT
3346	Table 3A	Hs.39850	NM_017859	8923486	hypothetical protein FLJ20517 (FLJ20517), mRNA /cds=(44,1690)	1	AGTGACGAGGAGGAAGTGGCCTACA CGGGTTAGCTGCCAGTGAGCCATC
3347	Table 3A	Hs.44344	NM_017867	8923502	hypothetical protein FLJ20534 (FLJ20534), mRNA /cds=(20,1060)	1	AACAGAAGTCAAGAGAACATAGACCA ACTTGCTGCATGAGTAAGGTGGCT
3348	Table 3A	Hs.107213	NM_017892	8923548	hypothetical protein FLJ20585 (FLJ20585), mRNA /cds=(99,746)	1	TTTTCCCTGCTATTGAGGAAGATT GCCTTCCCTACTCACTGAGAAGT
3349	Table 3A	Hs.55781	NM_017897	8923558	hypothetical protein FLJ20604 (FLJ20604), mRNA /cds=(99,1478)	1	CGGAACCAGAAATTTGATCTCAACTAT GTTCCACTAAAGGCACAGGAATGG



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3350	Table 3A	Hs.18791	NM_017899	8923562	hypothetical protein FLJ20607 (FLJ20607), mRNA /cds=(48,698)	1	CGCACCTTGTGTCTTGATAGGGTATGG
3351	Table 3A	Hs.52184	NM_017903	8923570	hypothetical protein FLJ20618 (FLJ20618), mRNA /cds=(318,725)	1	TATGTGGGACTTCGCTGTTTTAT
3352	Table 3A	Hs.49376	NM_017917	8923599	hypothetical protein FLJ20644 (FLJ20644), mRNA /cds=(276,1637)	1	AGCAGTTATATTGCCCTTCGGTTTTTA
3353	Table 3A	Hs.234149	NM_017918	8923601	hypothetical protein FLJ20647 (FLJ20647), mRNA /cds=(90,836)	1	TTCAGTTTAACACTGTTTCCAA
3354	Table 3A	Hs.180201	NM_017924	8923614	hypothetical protein FLJ20671 (FLJ20671), mRNA /cds=(72,494)	1	AGCAAAATCCTCAGAAATGGTCTAAA
3355	Table 3A	Hs.48712	NM_017948	8923662	hypothetical protein FLJ20736 (FLJ20736), mRNA /cds=(130,1851)	1	TAAACACTTGATATGCTTAGAGA
3356	Table 3A	Hs.279937	NM_014960	7662439	KIAA1001 protein (KIAA1001), mRNA /cds=(458,2035)	1	TGATTTTGCAACTTAGGATGTTTTGA
3357	Table 3A	Hs.280978	NM_018114	8922464	hypothetical protein FLJ10496 (FLJ10496), mRNA /cds=(13,429)	1	GTCCCATGGTTCATTTTGATTGT
3358	Table 3A	Hs.55024	NM_018053	8922341	hypothetical protein FLJ10307 (FLJ10307), mRNA /cds=(28,462)	1	TTACCTGGATTCCATTGGCTGGTTT
3359	Table 3A	Hs.100895	NM_018099	8922433	hypothetical protein FLJ10462 (FLJ10462), mRNA /cds=(147,1694)	1	ACCACCTCCTATCAGATTGTAGTGT
3360	Table 3A	Hs.4997	NM_018107	8922449	hypothetical protein FLJ10482 (FLJ10482), mRNA /cds=(149,1369)	1	CTCTTTGCCCTCTATCCTGAGTAACT
3361	Table 3A	Hs.236844	NM_018169	8922572	hypothetical protein FLJ10652 (FLJ10652), mRNA /cds=(50,1141)	1	AATGGACATCTCTCATGCTCAAGGT
3362	Table 3A	Hs.66048	NM_018174	8922582	chromosome 19 open reading frame 5 (C19orf5), mRNA /cds=(175,2193)	1	GCCACAGAATGGTCACCCAGCTTATT
3363	Table 3A	Hs.8083	NM_018210	8922653	hypothetical protein FLJ10769 (FLJ10769), mRNA /cds=(14,1186)	1	TAGGTGTAGACAAGTATGACACAG
3364	Table 3A	Hs.59838	NM_018227	8922683	hypothetical protein FLJ10808 (FLJ10808), mRNA /cds=(180,1559)	1	GCCACAGAGGCTCCAATCCTGGGA
3365	Table 3A	Hs.18851	NM_018253	8922730	hypothetical protein FLJ10875 (FLJ10875), mRNA /cds=(100,2037)	1	ATGTTTCAAAAAGTCATCAACTGGAA
3366	Table 3A	Hs.8739	NM_018255	8922734	hypothetical protein FLJ10879 (FLJ10879), mRNA /cds=(10,2490)	1	AGAATGTGTGTGCTGTGGGTCTCTA
3367	Table 3A	Hs.143954	NM_018270	8922763	hypothetical protein FLJ10914 (FLJ10914), mRNA /cds=(71,685)	1	CAAGTGACAGATGTTGTTTGTCA
3368	Table 3A	Hs.6118	NM_018285	8922793	mitochondrial ribosomal protein S4 (MRPS4), mRNA /cds=(47,601)	1	TCCAAATTTGTTTCTTAACATTCTATT
3369	Table 3A	Hs.302981	NM_018295	8922813	hypothetical protein FLJ11000 (FLJ11000), mRNA /cds=(223,780)	1	TATGCCTTTGCGTATTAAACGTG
3370	Table 3A	Hs.30822	NM_018326	8922872	hypothetical protein FLJ11110 (FLJ11110), mRNA /cds=(44,1033)	1	GCCTCTACTGTGGCTGCAACCTGG
3371	Table 3A	Hs.105216	NM_018331	8922883	hypothetical protein FLJ11125 (FLJ11125), mRNA /cds=(203,712)	1	CAATTATAGCTACTCCCATCCCTTA
3372	Table 3A	Hs.8033	NM_018346	8922910	hypothetical protein FLJ11164 (FLJ11164), mRNA /cds=(56,1384)	1	AACCTGAACACAATTTTGGGACACGT
3373	Table 3A	Hs.184465	NM_018370	8922957	hypothetical protein FLJ11259 (FLJ11259), mRNA /cds=(87,485)	1	TAAACATTACTTTTTCATCTTGA
3374	Table 3A	Hs.11260	NM_018371	8922959	hypothetical protein FLJ11264 (FLJ11264), mRNA /cds=(362,1189)	1	CTCAGCCAGCCCGCCTGTCCCTAG
3375	Table 3A	Hs.26194	NM_018384	8922984	hypothetical protein FLJ11296 (FLJ11296), mRNA /cds=(303,1226)	1	ATTCAGCCACATCAGAAATAAACTG
3376	literature	Hs.266514	NM_018394	8923000	hypothetical protein FLJ11342 (FLJ11342), mRNA /cds=(10,930)	1	ACTGTGCCATGGACATTTGCAAGCT
3377	Table 3A	Hs.183656	NM_018399	9055235	VNN3 protein (HSA238982), mRNA /cds=(45,1550)	1	GTGAACAGACAAATCTTGCAAGCT
3378	Table 3A	Hs.123090	NM_018450	8922086	BRG1-Associated Factor 250a (BAF250a) mRNA, complete cds /cds=(378,7235)	1	TAGGAGAATAAGAGTCTGGAGACTG
3379	Table 3A	Hs.7731	NM_018453	8922092	uncharacterized bone marrow protein BM036 (BM036), mRNA /cds=(95,798)	1	GGAGCCTTCACTTCGGCTCCGATT
3380	Table 3A	Hs.6375	NM_018471	8923807	uncharacterized hypothalamus protein HT010 (HT010), mRNA /cds=(226,1419)	1	TGCTGAGTGGTGTACACTTTGCAAGCT
3381	Table 3A	Hs.334370	NM_018476	8923715	brain expressed, X-linked 1 (BEX1), mRNA /cds=(171,548)	1	GTGTTGAGTGGTGTACACTTTGCAAGCT
3382	Table 3A	Hs.274369	NM_018477	8923711	uncharacterized hypothalamus protein HARP11 (HARP11), mRNA /cds=(80,1333)	1	GTGTTGAGTGGTGTACACTTTGCAAGCT
3383	db mining	Hs.10669	NM_018482	8923867	mRNA for KIAA1249 protein, partial cds /cds=(0,2850)	1	AGCTAATTATCTCTTTGAGTCCTTGCT
3384	Table 3A	Hs.102652	NM_018489	8922080	hypothetical protein ASH1 (ASH1), mRNA /cds=(309,9218)	1	TCTGTTTGCTCACAGTAAGCTCA
3385	Table 3A	Hs.160271	NM_018490	8923700	G protein-coupled receptor 48 (GPR48), mRNA /cds=(444,3299)	1	TCCTACTTAITTAAGCTATTTGAGCTC
3386	Table 3A	Hs.7535	NM_018491	13236498	COBW-like protein (LOC55871), mRNA /cds=(84,1251)	1	CGGGTCTCTTCTACCTGCATTCT
3387	Table 3A	Hs.104741	NM_018492	8923876	PDZ-binding kinase; T-cell originated protein kinase (TOPK), mRNA /cds=(154,1122)	1	AGTGATTGCCACTTAAATCAGAAGAC

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3388	Table 3A	Hs.283330	NM_018507	8924082	hypothetical protein PRO1843 (PRO1843), mRNA /cds=(964,1254)	1	TCCAATGCAGTCCCATTCTTTATGGC
3389	Table 3A	Hs.186874	NM_018519	8924144	hypothetical protein PRO2266 (PRO2266), mRNA /cds=(258,626)	1	CTATAGTCTCACTCCCACTACCC
3390	Table 3A	Hs.343477	AF119911	7770258	PRO2975 mRNA, complete cds /cds=UNKNOWN	1	GGTGTCTGACTTAATGACTCCTGCTG
3391	Table 3A	Hs.147644	NM_018555	10092612	zinc finger protein 331; zinc finger protein 463 (ZNF381), mRNA /cds=(376,1767)	1	AAGTTGAATTGTGAGATGTTATCC
3392	Table 3A	Hs.300496	NM_018579	8924027	mitochondria solute carrier protein (MSCP) mRNA, complete cds, alternatively spliced /cds=(44,511)	1	CATTGTCTGGAAATGCTGCCGGGAG
3393	Table 3A	Hs.300498	NM_018579	8924027	mitochondria solute carrier protein (MSCP) mRNA, complete cds, alternatively spliced /cds=(44,511)	1	CCTATTGTGTAATGTAGGATTTT
3394	Table 3A	Hs.52891	NM_018607	13699864	hypothetical protein PRO1853 (PRO1853), mRNA /cds=(472,771)	1	GCGGGAAGGCATGTAACCACTAAA
3395	Table 3A	Hs.103657	NM_018623	8924137	PRO2219 mRNA, complete cds /cds=(823,1056)	1	CCATCTCCGAGAATCAGAGGATC
3396	Table 3A	Hs.241576	NM_018630	8924181	hypothetical protein PRO2577 (PRO2577), mRNA /cds=(491,664)	1	CAGGTCAACCCCCACGGACCTACA
3397	Table 3A	Hs.283022	NM_018643	8924261	triggering receptor expressed on myeloid cells 1 (TREM1), mRNA /cds=(47,751)	1	ACCCGCAGTCCCACATCATCTCAGG
3398	Table 3A	Hs.14317	NM_018648	8923941	nucleolar protein family A, member 3 (H/ACA small nucleolar RNPs) (NOLA3), mRNA /cds=(97,291)	1	CAGGTCAACCCCCACGGACCTACA
3399	Table 3A	Hs.195292	NM_018666	8924241	putative tumor antigen (SAGE), mRNA /cds=(167,2881)	1	ACCCGCAGTCCCACATCATCTCAGG
3400	Table 3A	Hs.8117	NM_018695	8923908	erbB2-interacting protein ERBIN (ERBB2IP), mRNA /cds=(323,4438)	1	TTTAGGGTTGTGACTGGCTTTGGTGC
3401	Table 3A	Hs.78825	NM_018834	10047081	matrin 3 (MATR3), mRNA /cds=(254,2800)	1	AAATGTGTGCTCAAGCTAATAAGT
3402	Table 3A	Hs.44163	NM_018838	10092656	13kDa differentiation-associated protein (LOC55967), mRNA /cds=(53,490)	1	ACTTGTGTTTTGTTGGGGGCTGGGA
3403	Table 3A	Hs.183842	NM_018955	11024713	ubiquitin B (UBB), mRNA /cds=(94,783)	1	AATGATTTTTTACATTGTAGCCAA
3404	db mining	Hs.44234	NM_018965	9507202	triggering receptor expressed on myeloid cells 2 (TREM2), mRNA /cds=(94,766)	1	AACATTGTGCTCTAACAGTATGACTA
3405	Table 3A	Hs.274428	NM_018975	9507032	TRF2-interacting telomeric RAP1 protein (RAP1), mRNA /cds=(138,1034)	1	TTCTTCCCCACTCTTAACAGT
3406	Table 3A	Hs.61053	NM_018986	9506676	hypothetical protein (FLJ20356), mRNA /cds=(91,3285)	1	CCAAGGAGGAGGGAGGAGGTAAAA
3407	Table 3A	Hs.80618	NM_018998	9506648	hypothetical protein (FLJ20015), mRNA /cds=(31,522)	1	GGCAGGAGTTAATAACGAATTA
3408	Table 3A	Hs.83954	NM_019006	9506852	protein associated with PRK1 (AWP1), mRNA /cds=(244,804)	1	TACTCTTTGGCATCCAGTCTCTCGTG
3409	Table 3A	Hs.98324	NM_019044	9506632	hypothetical protein (FLJ10996), mRNA /cds=(135,857)	1	GCGATTGATTATGCTTGTGTGAGG
3410	db mining	Hs.110746	NM_019052	9506772	HCR (a-helix coiled-coil rod homologue) (HCR), mRNA /cds=(79,2427)	1	CCTTCCAGAAGCTACGAAAAAGGGA
3411	Table 3A	Hs.274248	NM_019059	9506858	hypothetical protein FLJ20758 (FLJ20758), mRNA /cds=(464,1306)	1	GCTGTTTAAATTTAATAATCTCTG
3412	Table 3A	Hs.124835	NM_019062	9506662	hypothetical protein (FLJ20225), mRNA /cds=(177,860)	1	AAGTGCCATAGAAGCAATAACTGT
3413	Table 3A	Hs.30909	NM_019081	11464998	KIAA0430 gene product (KIAA0430), mRNA /cds=(0,3599)	1	TTAGTTGAGGCTAGCTTGGAACTT
3414	Table 3A	Hs.76807	NM_019111	9506780	major histocompatibility complex, class II, DR alpha (HLA-DRA), mRNA /cds=(26,790)	1	TGGATTCAAGTTACTGAAGTAATAC
3415	Table 3A	Hs.25951	NM_019555	9506400	Rho guanine nucleotide exchange factor (GEF) 3 (ARHGEF3), mRNA /cds=(127,1707)	1	CAATAAAAAGAAAACCTAGGCCA
3416	Table 3A	Hs.278857	NM_019597	14141155	heterogeneous nuclear ribonucleoprotein H2 (H') (HNRPH2), mRNA /cds=(78,1427)	1	AGGAGTGGATCCCACCTTCAACACCT
3417	Table 3A	Hs.159523	NM_019604	9624976	class-I MHC-restricted T cell associated molecule (CRTAM), mRNA /cds=(0,1181)	1	TACAAGTAAGACAATGAAGAACA
3418	Table 3A	Hs.159523	NM_019604	9624976	class-I MHC-restricted T cell associated molecule (CRTAM), mRNA /cds=(0,1181)	1	CAGTAATAGCTGAACCTGTTCAAAT
3419	Table 3A	Hs.324743	NM_019853	9790172	protein phosphatase 4 regulatory subunit 2 (PPP4R2), mRNA /cds=(417,1778)	1	GTTAATAAAGGTTTCGTTGCATGG
3420	Table 3A	NA	NM_019997	9910435	Mus musculus cDNA sequence AB041581 (AB041581), mRNA	1	AGGGAGTGGGAGGTGGTAAGAACA

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3421	Table 3A	Hs.5392	NM_020122	10047127	potassium channel modulatory factor (DKFZP434L1021), mRNA /cds=(53,1198)	1	GCTGCTGTGTGTTATTTATGAATATTAA TGAATAAAAACTGCTTGGATGGT
3422	Table 3A	Hs.8203	NM_020123	10047129	endomembrane protein emp70 precursor isolog (LOC56889), mRNA /cds=(19,1779)	1	ACCGTGTAAGGTGGGGATGGGGTAA AAGTGTTAACGTACTGTTGGATCA
3423	Table 3A	Hs.236828	NM_020135	9910349	putative helicase RUVBL (LOC56897), mRNA /cds=(238,1575)	1	TAAATTTATTTATTTATGAAAAAACCT CGTGCCGAATCTTGGCCTCGAG
3424	Table 3A	Hs.110796	NM_020150	9910541	GTP-binding protein SAR1 (SAR1) mRNA, complete cds /cds=(124,720)	1	GGGTTTCCGCTGGCTCTCCAGTATA TTGACTGATGTTTGACGGTGAAA
3425	Table 3A	Hs.334775	NM_020151	9910251	Homo sapiens, Similar to RIKEN cDNA 1200014H14 gene, clone IMAGE:3139657, mRNA, partial cds /cds=(0,523)	1	GTACAGTTACTCATGTCTTGTAAATG ATTTCACTCCTAACTGTGACATTT
3426	literature	Hs.21320	NM_020165	14550404	postreplication repair protein hRAD18p (RAD18), mRNA /cds=(77,1564)	1	ACTGAGTTGTCAGAAATTATGTCAAA ATGAAAACTGTTTGTTCATGACA
3427	Table 3A	Hs.6879	NM_020188	9910183	DC13 protein (DC13), mRNA /cds=(175,414)	1	ACCTGACTTCACCATGTTTATTCCTT TGCCTACAAACCAATTAATATCTG
3428	Table 3A	Hs.7045	NM_020194	9910247	GL004 protein (GL004), mRNA /cds=(72,728)	1	TCATGCGTGAACAAATTTAAAAACGA CAGAATAAGGTACAAATGTAGTGT
3429	literature	Hs.9822	NM_020198	9910259	HCNP protein; XPA-binding protein 2 (HCNP),	1	CCCATCCCCCTCCCCACCCCATC CCCAATACAGCTACGTTGTACATC
3430	Table 3A	Hs.283611	NM_020217	9910199	hypothetical protein DKFZp547I014 (DKFZp547I014), mRNA /cds=(1774,2166)	1	CCAACAAATTTGGGATCATCCAACT GAGTCCATCTGCGCTAATCTAAAT
3431	Table 3A	Hs.79457	NM_017860	8923488	hypothetical protein FLJ20519 (FLJ20519), mRNA /cds=(74,604)	1	TGACTGGAAGTGAAGATAAATGGGA ATGTATGACCAATCTTAGACCTCG
3432	Table 3A	Hs.4859	NM_020307	9945319	cyclin L ania-6a (LOC57018), mRNA /cds=(54,1634)	1	TGTTAAATGATGGTGAATACTTTCTT AACACTGGTTGTCTGCATGTGT
3433	Table 3A	Hs.283728	NM_020357	9966826	PEST-containing nuclear protein (pcnp), mRNA /cds=(18,554)	1	ACCTAAGGTCAAGCTGGGAGAGAGA AATGACTGAGATGAATGTCTTACT
3434	Table 3A	Hs.322901	NM_020368	9966798	disrupter of silencing 10 (SAS10), mRNA /cds=(161,1600)	1	GCTTAGGGAAATTTACAGTTCATTG TGGAGTGTAAACCTTAGAACATGT
3435	Table 3A	Hs.111988	NM_020382	9966854	PR/SET domain containing protein 07 (SET07), mRNA /cds=(150,1331)	1	TGTTACAGGTTTCCAAGGTGGACTTG AACAGATGGCCTTATATTACAAA
3436	Table 3A	Hs.12450	NM_020403	14589940	protocadherin 9 (PCDH9), mRNA /cds=(118,3729)	1	TGTTACTGCTTTGCCAGTTCTACGTT ATTTACAATTTATTCAGCTCTTGCA
3437	Table 3A	Hs.286233	NM_020414	14251213	sperm autoantigenic protein 17 (SPA17), mRNA /cds=(1210,1665)	1	TTTCTGTATGTCAGTGTATTATAGGCTT CTTGTGTGTTAAACTTGATTTCA
3438	Table 3A	Hs.287369	NM_020525	10092624	interleukin 22 (IL22), mRNA /cds=(71,610)	1	AACAAACCCCTTTCCCTGCTAGAAA TAACAATTAGATGCCCCAAGCGA
3439	Table 3A	Hs.81328	NM_020529	10092618	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha (NFKBIA), mRNA /cds=(94,1047)	1	GTTTGTGTACCCTTGTAATGGTGTG GTACATAATGATTTGTTGGTAATT
3440	Table 3A	Hs.78888	NM_020548	10140852	diazepam binding inhibitor (GABA receptor modulator, acyl-Coenzyme A binding protein) (DBI), mRNA /cds=(0,314)	1	GCTCACCATACGGCTCTAACAGATTA GGGGCTAAACGATTACTGACTTT
3441	literature	Hs.247302	NM_020648	10190663	twisted gastrulation (TSG), mRNA /cds=(13,684)	1	CGGCTGATGGGACAGGAATTGAAGA AGAGAATTGACTCGTATGAACAGGA
3442	literature	Hs.149342	NM_020661	10190699	activation-induced cytidine deaminase (AICDA), mRNA /cds=(76,672)	1	TGGTGCTACGAAGCCATTTCTCTTGA TTTTAGTAAACTTTTATGACAGC
3443	Table 3A	Hs.295231	NM_020666	10190705	CLK4 mRNA, complete cds /cds=(153,1514)	1	TGAGAACTGTTTGACCTGGTTCGAA GAATGTTAGAATATGATCCAATC
3444	Table 3A	Hs.105052	NM_020979	10280625	adaptor protein with pleckstrin homology and src homology 2 domains (APS), mRNA /cds=(127,2025)	1	GGTGGGACACGCAATGCTCTTCAGT GAAGACACGATGTTATTAAGGCCT
3445	Table 3A	Hs.104624	NM_020980	11038652	aquaporin 9 (AQP9), mRNA /cds=(286,1173)	1	TGCTTTGAAGCTACCTGGATATTTCC TATTTGAAATAAAATGTTCCGGTC
3446	Table 3A	Hs.211583	NM_020993	10337612	B-cell CLL/lymphoma 7A (BCL7A), mRNA /cds=(953,1648)	1	ATCGCCAAGAACTGGTTAGAGGCAT AAAGACCTTTTTCACCGTTACCT
3447	Table 3A	Hs.6574	NM_021008	10337616	suppressin (nuclear deformed epidermal autoregulatory factor-1 (DEAF-1)-related) (SPN), mRNA /cds=(356,2011)	1	TGCTGCGACGCACATACATACGTGTT GTGTCTGTCAATAAAGTGTAATAA
3448	Table 3A	Hs.178391	NM_021029	10445222	ribosomal protein L44 (RPL44), mRNA /cds=(37,357)	1	TGGGAGGAGATAAGAAGAAAGGG CCAAGTGATCCAGTCTCAAGTGTC
3449	Table 3A	Hs.28578	NM_021038	10518339	muscleblind (Drosophila)-like (MBNL), mRNA /cds=(1414,2526)	1	TGCAGTAGTTGACTTTGCTGTATGGA AAAATAAAGTGAATTTGCCCTAAT
3450	literature	Hs.51011	NM_021084	10800131	H2A histone family, member P (H2AFP), mRNA /cds=(30,422)	1	GCTAAATAAGGAATACATGCCAAG ATCATCGAATTGTGCTCTCTCCCT
3451	Table 3A	Hs.51299	NM_021074	10835024	NADH dehydrogenase (ubiquinone) flavoprotein 2 (24kD) (NDUFV2), mRNA /cds=(18,767)	1	ACCCAGGGACCTGGATTTGGTGTAC AAGCAGGCCCTTAATTTATATTGA
3452	Table 3A	Hs.63302	NM_021090	10835108	myotubularin related protein 3 (MTMR3)	1	GGAGTCAGTCAGTGCTCTATATTTT TCATTTTTTGTCAAAGCAAGAAGT
3453	Table 3A	Hs.324406	NM_021104	10863874	ribosomal protein L41 (RPL41), mRNA /cds=(83,160)	1	TTTGTGGCCGAGTGTAACAACCATAT AATAAATCACCTCTTCGGCTGTTT

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3454	Table 3A	Hs.198282	NM_021105	10863876	phospholipid scramblase 1 (PLSCR1), mRNA /cds=(258,1212)	1	TTCTACATGAAATGTTTAGCTCTTACA CTCTATCCTTCCTAGAAAAATGGT
3455	Table 3A	Hs.75968	NM_021109	11056060	thymosin, beta 4, X chromosome (TMSB4X), mRNA /cds=(77,211)	1	GGACGACAGTGAAATCTAGAGTAAAA CCAAGCTGGCCCAAGTGCTCTGCA
3456	Table 3A	Hs.154890	NM_021122	12669906	fatty-acid-Coenzyme A ligase, long-chain 2 (FACL2), mRNA /cds=(13,2109)	1	TGTTTTGGGGTCTGTGAGAGTACATG TATTATATACAAGCACACAGGGC
3457	Table 3A	Hs.96	NM_021127	10863922	phorbol-12-myristate-13-acetate-induced protein 1 (PMAIP1), mRNA /cds=(173,337)	1	AGGAACAGTTAGTTCTCATCTAGAAT GAAAGTTCATATATGCATTGGTG
3458	Table 3A	Hs.71618	NM_021128	14589956	polymerase (RNA) II (DNA directed) polypeptide L (7.6kD) (POLR2L), mRNA /cds=(21,224)	1	TGTGTGTGTATCCCATACCCCACTCT GGAAGGAACCATCCAGTAAAGGTC
3459	Table 3A	Hs.184011	NM_021129	11056043	pyrophosphatase (inorganic) (PP), nuclear gene encoding mitochondrial protein, mRNA /cds=(77,946)	1	GTGCAAGGGGAGCACATATTGGATG TATATGTTACCATATGT.TAGGAAAT
3460	Table 3A	Hs.267690	NM_021130	10863928	mRNA for KIAA1228 protein, partial cds /cds=(0,2178)	1	TTTCCTTGTTCCCTCCCATGCCTAGC TGGATTGCAGAGTTAAGTTTATGA
3461	literature	Hs.84981	NM_021141	12408650	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining; Ku autoantigen, 80kD) (XRCC5), mRNA /cds=(33,2231)	1	ACCCAGTCAGCTCTGTCTTCAGCACC CTCATAAGTCGTCAATATACACA
3462	Table 3A	Hs.12743	NM_021151	10863952	camitine O-octanoyltransferase (CROT), mRNA /cds=(136,1974)	1	TGAATCACATTGTCAGAAATTTTTCCT CCTCGCTGTTCAATTTTGTAGTT
3463	Table 3A	Hs.7137	NM_021188	10863994	clones 23667 and 23775 zinc finger protein (LOC57862), mRNA /cds=(182,1618)	1	AGATGCCCTTGTGCTTTGAAGAAGGG AGTGATGTCAATTCCTCTGTATACA
3464	Table 3A	Hs.8185	NM_021199	10864010	CGI-44 protein; sulfide dehydrogenase like (yeast) (CGI-44), mRNA /cds=(76,1428)	1	CCATGTGGGGTACTCATGATGGGCTT GATTCTTTGGGAATAATAAAATGA
3465	Table 3A	Hs.12152	NM_021203	14917112	APMCF1 protein (APMCF1), mRNA /cds=(16,831)	1	AAAAGTTCTCTGTAGATTTCTGAAGT GCATATTCATTGATGCCAAGAAAA
3466	Table 3A	Hs.25726	NM_021211	10864022	transposon-derived Buster1 transposase-like protein (LOC58486), mRNA /cds=(468,2549)	1	GGAGGAGTTTGCATGTCTCATGATAA CCAAATGTAAAGATGAAATAAAAG
3467	Table 3A	Hs.29417	NM_021212	10864024	HCF-binding transcription factor Zhangfei (ZF), mRNA /cds=(457,1275)	1	TTGGTGACTTAGTGATTTTGTCAATTT TTACATCAACTTCATGGCTCTTGT
3468	literature	Hs.274363	NM_021257	10864064	neuroglobin (NGB), mRNA /cds=(0,455)	1	CGCCCGGCGAGCCCCATCCATCTGT GTCTGTCTGTGGCCTGTATCTGTT
3469	Table 3A	Hs.19520	NM_021603	11125763	FXYD domain-containing ion transport regulator 2 (FXYD2), transcript variant b, mRNA /cds=(67,261)	1	GGCATCGCCACACGCTGCCCTCGTGC CACCTCATGCTTATAATAAGCCGG
3470	Table 3A	Hs.104305	NM_021621	14719827	death effector filament-forming Ced-4-like apoptosis protein (DEFCAP), transcript variant B, mRNA /cds=(522,4811)	1	CTGGCTGTGTACAGGGTGAGCCCC AAAAATGGGGTTCAGCGTGGGAGGC
3471	Table 3A	Hs.17757	NM_021622	11055985	pleckstrin homology domain-containing, family A (phosphoinositide binding specific) member 1 (PLEKHA1), mRNA /cds=(66,1280)	1	GCCGTCCTCAGTTACCTTTCATGAGG CTTCTAGCCAAAGATGATAAAGGG
3472	Table 3A	Hs.108747	NM_021626	11055991	serine carboxypeptidase 1 precursor protein (HSCP1), mRNA /cds=(32,1390)	1	AGGATAAAATCATTGTCTCTGGAGGC AATTTGGAAATATTTCTGCTTCT
3473	Table 3A	Hs.3826	NM_021633	11056005	cDNA FLJ14750 fls, clone NT2RP3002948, weakly similar to RING CANAL PROTEIN /cds=(200,1906)	1	CGGGTGATTACAGGCACCAAGTGCAG TGATGATTGTACTTATTTGACACAT
3474	Table 3A	Hs.155418	NM_021643	11056053	GS3955 protein (GS3955), mRNA /cds=(1225,2256)	1	GCCTCTGGTGCTTTGTCTGTATTTG GTTTAAATGTTTTGTCTTAATCTC
3475	Table 3A	Hs.279681	NM_021644	14141158	heterogeneous nuclear ribonucleoprotein H3 (2H9) (HNRPH3), transcript variant 2H9, mRNA /cds=(118,1158)	1	TTGATGTGAATTCAGTTATTTGAACCTG TTACTTGTTTTGCCAGAAATGT
3476	Table 3A	Hs.174030	NM_021777	11496993	a disintegrin and metalloproteinase domain 28 (ADAM28), transcript variant 1, mRNA /cds=(47,2374)	1	AAGCTTCGAACCTCAAATCATGGAAA GGTTTAAAGATTGAGGTTGGTTT
3477	Table 3A	Hs.288906	NM_021818	11141888	VW Domain-Containing Gene (VW45), mRNA /cds=(215,1368)	1	CCCAGTTAGATATCAGTGAGTTTGAA TAACTGAAGAAATGTTGACAAATGT
3478	Table 3A	Hs.10724	NM_021821	11141894	MDS023 protein (MDS023), mRNA /cds=(335,1018)	1	AAGTACACCTGTGAGTCTTTCTTAC CACTTCGATGGTTGTGATTAATTT
3479	Table 3A	Hs.154938	NM_021825	11141900	hypothetical protein MDS025 (MDS025), mRNA /cds=(5,769)	1	TGTTTGCTTGAAACAGTTGTGTAATC ATACAGGATTTTGTGGGTATTGGT
3480	literature	Hs.302003	NM_021922	11345453	Fanconi anemia, complementation group E (FANCE), mRNA /cds=(185,1795)	1	TGACCTTCTGTGTTTTGTTTCTGACT TGAATAATTTATCAATGGTGTG
3481	Table 3A	Hs.7174	NM_021931	11345467	hypothetical protein FLJ22759 (FLJ22759), mRNA /cds=(2,2113)	1	CCAGGGCTGCTTGTCTGTGATGATGA TTGCATTTCAACACATGCCAGATG

Table 8

3482	Table 3A	Hs.89751	NM_021950	11386186	membrane-spanning 4-domains, subfamily A, member 2 (Fc fragment of IgE, high affinity I, receptor for; beta polypeptide) (MS4A2), mRNA /cds=(90,983)	1	GAGTTACCACACCCCATGAGGGAAG CTCTAAATAGCCAACACCCATCTGT
3483	Table 3A	Hs.2484	NM_021966	11415027	T-cell leukemia/lymphoma 1A (TCL1A), mRNA /cds=(45,389)	1	TTCTATCCTTGACTTAGATTCTGGTG GAGAGAAGTGAGAATAGGCAGCCC
3484	Table 3A	Hs.75569	NM_021975	11496238	v-rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 (p65)) (RELA), mRNA /cds=(38,1651)	1	TCCTGCTCTTCTACTCTGAACATAA AAGCTGTTGCCAAGCTGGACGGC
3485	literature	Hs.245342	NM_021979	13676856	hypothetical protein FLJ14642 (FLJ14642), mRNA /cds=(23,583)	1	TGCAAAACAAATGCATAAATGCAAATG TAAAGTAAAGCTGAAATGTGATCTC
3486	Table 3A	Hs.326801	NM_021998	11527399	DNA sequence from PAC 75N13 on chromosome Xq21.1. Contains ZNF6 like gene, ESTs, STSs and CpG islands /cds=(567,2882)	1	ATGCTACTTGGGAGAAACTCTCACT AACTGTCTACCGGGTTTCAAAGC
3487	Table 3A	Hs.293970	NM_021999	11527401	methylmalonate-semialdehyde dehydrogenase (ALDH8A1), mRNA /cds=(42,1649)	1	TGCAATGGAAATATAAATATCACAAAG TTGTTTAACTAGACTCGCGTTGT
3488	Table 3A	Hs.82407	NM_022059	11545764	CXC chemokine ligand 18 (CXCL18), mRNA /cds=(423,1244)	1	TTTCACCTCCTCAGTCCCTTGCCTAC CCCAGTGAGAGCTGATCTGTCTT
3489	Table 3A	Hs.136164	NM_022117	11545834	cutaneous T-cell lymphoma-associated tumor antigen se20-4 (SE20-4), mRNA /cds=(129,2210)	1	CGCCTCTCCCCGTGGACCTGTTAAT CCCAATAAAATCTGAGCAAGTTC
3490	Table 3A	Hs.24633	NM_022136	11545870	SAM domain, SH3 domain and nuclear localisation signals, 1 (SAMS1), mRNA /cds=(82,1203)	1	AGGATTCTGCTGTGAAACAAGTTGTC CAAGCAATGTTATATTCAATTTTA
3491	Table 3A	Hs.184052	NM_022152	11545897	PP1201 protein (PP1201), mRNA /cds=(75,1010)	1	GGAAGGGGGGACAAGGGTCAGTCTGT CGGGTGGGGGCGAGAAATCAAATCAG
3492	Table 3A	Hs.184052	NM_022152	11545897	PP1201 protein (PP1201), mRNA /cds=(75,1010)	1	GGAAGGGGGGACAAGGGTCAGTCTGT CGGGTGGGGGCGAGAAATCAAATCAG
3493	literature	Hs.294030	NM_022447	13937360	topoisomerase-related function protein 4-2 (TRF4-2), mRNA /cds=(336,869)	1	TTTTTCCAGCTCGCCACAGAATGGA TCATGAAGACTGACAACTGCAAAA
3494	Table 3A	Hs.74899	NM_022451	11967984	hypothetical protein FLJ12820 (FLJ12820), mRNA /cds=(156,1451)	1	AGGAGTGGCCTAAGAAATGCGTGT CAGTGACTAGATTATAAATATTCT
3495	Table 3A	Hs.15220	NM_022473	11968022	zinc finger protein 106 (ZFP106), mRNA /cds=(335,5886)	1	AGCTGTGAACCTTCGTAACCTTGTA GCAAGATATAAGCAAATACAAGA
3496	Table 3A	Hs.27556	NM_022485	11968038	hypothetical protein FLJ22405 (FLJ22405), mRNA /cds=(81,1334)	1	AGGAGGGATCACCTGCACTGAGAAT GAGGCAGTTTGACACAGATCACAAA
3497	Table 3A	Hs.26367	NM_022488	11968042	PC3-96 protein (PC3-96), mRNA /cds=(119,586)	1	TGTTCCACTACCAGCCTTACTTGT ATAAAAAATCAGTGCAAGAGAGAAA
3498	Table 3A	Hs.22353	NM_022494	11968052	hypothetical protein FLJ21952 (FLJ21952), mRNA /cds=(424,1665)	1	ACCTCAGATTTTGTACCTGTCTTTTA AAAATGCAGATTTTGTCAAATCA
3499	Table 3A	Hs.23259	NM_022496	11968056	hypothetical protein FLJ13433 (FLJ13433), mRNA /cds=(35,1225)	1	TTAACGGCTTCACTGGACAGTTTCC TTAGAAGGTAGTTTGTGTGACTG
3500	Table 3A	Hs.275865	NM_022551	14165467	mRNA; cDNA DKFZp586A0618 (from clone DKFZp586A0618) /cds=UNKNOWN	1	ACCGTGGGTGTGTCCAAGAAGAAATA AGTCTGTAGGCCTTGTCTGTTAAT
3501	Table 3A	Hs.161786	NM_022570	13384603	C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 12 (CLECSF12), mRNA /cds=(71,676)	1	CCAATGGATATTCTGTATTACTAGG GAGGCATTACAGTCTCTAATGT
3502	literature	Hs.65328	NM_022725	12232376	Fanconi anemia, complementation group F (FANCF), mRNA /cds=(13,1137)	1	TAGCTTTAGAAAAACAGTTTGTGAA CTTACTTCCCTATATTGTCAGCT
3503	Table 3A	Hs.63609	NM_022727	12232380	HpaII tiny fragments locus 9C (HTF9C), mRNA /cds=(235,1662)	1	CTTTGTGGACTAGCCAAGGCTGTGAG GGCCAGAATAAAACAAGCTCAAC
3504	Table 3A	Hs.7503	NM_022736	12232392	hypothetical protein FLJ14153 (FLJ14153), mRNA /cds=(30,1427)	1	GCCGAGCAATGACCCTTTTCAATTC TTATTTCTGTGTACTGAGGACCC
3505	Table 3A	Hs.194477	NM_022739	12232396	E3 ubiquitin ligase SMURF2 (SMURF2), mRNA /cds=(8,2254)	1	GAAACATGTGGATTGTCTGTGGAATG ACAAGCTTCAAGGATTACCCAGG
3506	Table 3A	Hs.34516	NM_022766	12232440	mRNA for KIAA1646 protein, partial cds /cds=(0,1446)	1	TTTGATCTGAAATGTTTGAGAAGACA CGAATAAAGTTACTTGGGCGAGAAA
3507	Table 3A	Hs.154057	NM_022790	13027789	matrix metalloproteinase 19 (MMP19), transcript variant rasi-3, mRNA /cds=(1642,1899)	1	TCCCATCAAAAAGGTATCAATGCCT TGGAAGCTCCCTGATCCTACAAAA
3508	Table 3A	Hs.121849	NM_022818	13699866	microtubule-associated proteins 1A/1B light chain 3 (MAP1A/1BLC3), mRNA /cds=(84,461)	1	ATCTGACATTATTGTAACCTACCGTGT GATCAGTAAGATTCTGTGAAGAAA
3509	Table 3A	Hs.146123	NM_022894	12597628	hypothetical protein FLJ12972 (FLJ12972), mRNA /cds=(168,1076)	1	ACCTTGATACCATGGAAAACATGAAAA GAGTCTTAGAAGTAAAGAACAAACA
3510	Table 3A	Hs.57987	NM_022898	12597634	B-cell lymphoma/leukaemia 11B (BCL11B), mRNA /cds=(267,2738)	1	AGCATGTGTCTGCCATTTTCAATTTGA CGCTTGTTCAAACCAAGTTTGT
3511	Table 3A	Hs.128003	NM_022900	12597638	hypothetical protein FLJ21213 (FLJ21213), mRNA /cds=(74,1042)	1	TGAGCTGTATTACCATAAGTAGAATTT TAAGTAAACTGGTGAATTTGGGC

Table 8

3512	Table 3A	Hs.194688	NM_023005	14670389	bromodomain adjacent to zinc finger domain, 1B (BAZ1B), transcript variant 1, mRNA /cds=(352,4803)	1	GCCCCATTAAAGGGTGAACCTTGAAT AAATTGGAATTTCAAATAAACCTC
3513	Table 3A	Hs.168232	NM_023079	12751494	hypothetical protein FLJ13855 (FLJ13855), mRNA /cds=(314,1054)	1	TGCCCTAATCTTGAGTTGAGGAAATA TATGCACAGGAGTCAAAGAGATGT
3514	db mining	Hs.37026	NM_024013	13128949	interferon, alpha 1 (IFNA1), mRNA /cds=(67,636)	1	AACGTCATGTGCACCTTTACACTGTG GTTAGTGAATAAAACATGTTCCCT
3515	Table 3A	Hs.302981	NM_024033	8922813	hypothetical protein FLJ11000 (FLJ11000), mRNA /cds=(223,780)	1	TTATTCATATATTCCTGTCCAAAGCCA CACTGAAAACAGAGGCAGAGACA
3516	Table 3A	Hs.115960	NM_024036	13128987	hypothetical protein MGC3103 (MGC3103), mRNA /cds=(10,984)	1	GCAGCCACCCACTGGGAGTCTTGTTT TTATTTATAATAAAATTGTTGGGG
3517	Table 3A	Hs.7392	NM_024045	13129005	nucleolar protein GU2 (GU2), mRNA /cds=(107,2320)	1	ATCCACCAAAAATTAGGTCATCATAG TTGAGGTATGTCTGCTATTGTC
3518	Table 3A	Hs.103834	NM_024056	13129025	hypothetical protein MGC5576 (MGC5576), mRNA /cds=(51,803)	1	CCATTGGCTGGAACATGGATTGGGG ATTTGATAGAAAAATTGAATGGAA
3519	Table 3A	Hs.115659	NM_024061	13129035	hypothetical protein MGC5521 (MGC5521), mRNA /cds=(163,708)	1	GTTCCCTTACTCTGTCTTGATGGAGG GGAGAAGGGAGGGCAAGAAGTTA
3520	Table 3A	Hs.267400	NM_024095	13129097	hypothetical protein MGC5540 (MGC5540), mRNA /cds=(77,943)	1	TGGTTTTCTCTTTGGGGCACTGTGTAA CGGTCCAGAGAATCCCTTCTAGA
3521	Table 3A	Hs.321130	NM_024101	13129107	hypothetical protein MGC2771 (MGC2771), mRNA /cds=(184,1988)	1	ACCCCTTTCACCTCTTGGCTTCTTATG TTGCTTTTCATGAATGGATGGAA
3522	Table 3A	Hs.109701	NM_024292	13236509	ubiquitin-like 5 (UBL5), mRNA /cds=(65,286)	1	CCCATCCTCATCCCCACACTGGGAT AGATGCTTGTGTTGTAATAAATCAC
3523	Table 3A	Hs.78768	NM_024298	13236521	malignant cell expression-enhanced gene/tumor progression-enhanc (LENG4), mRNA /cds=(1101,1700)	1	TCAGGCCGCCCTAGCTGCCCTTTGCG CAGGTTAATAAAGCACTGACTTGTT
3524	Table 3A	Hs.323193	NM_024334	13236586	hypothetical protein MGC3222 (MGC3222), mRNA /cds=(149,1351)	1	AAGGATTTTAAATAACTGCCGACTTC AAAAGTGTCTTAAACGAAAGAT
3525	Table 3A	Hs.15961	NM_024348	13259513	dynactin 3 (p22) (DCTN3), transcript variant 2, mRNA /cds=(16,546)	1	CACCCACCCCTCCCCCAATCAGTGTT CTTATTTCAAGTGACAAATAACCAT
3526	Table 3A	Hs.8121	NM_024408	13249343	Notch (Drosophila) homolog 2 (NOTCH2), mRNA /cds=(12,7427)	1	ATAGCTGGTGACAAACAGATGGTTGC TCAGGGACAAGGTGCCTTCCAATG
3527	db mining	Hs.12315	NM_024557	13375722	hypothetical protein FLJ11608 (FLJ11608), mRNA /cds=(561,1184)	1	CATGGATATCATGTATCCTCTCTGGT GCTCACACACCTGTACCTCTGTAA
3528	Table 3A	Hs.337561	NM_024567	13375737	hypothetical protein FLJ21616 (FLJ21616), mRNA /cds=(119,1093)	1	GCTGTGTGACTTAGTAGATAAAATAC TGCCCTCTGCCCTTTGGGACCATGA
3529	db mining	Hs.236449	NM_024898	13376352	hypothetical protein FLJ22757 (FLJ22757), mRNA /cds=(92,2473)	1	ACTTCCATCTCAGCTAATGCACCCAC CAGCTCAAACACACCAATAAAGCT
3530	literature	Hs.72241	NM_030662	13489053	mitogen-activated protein kinase kinase 2 (MAP2K2), mRNA /cds=(263,1465)	1	GCTGCTGTGTGGTCTCAGAGGCT CTGCTTCTTAGGTTACAAAACAAA
3531	Table 3A	Hs.186270	NM_030780	13540550	folate transporter/carrier (LOC81034), mRNA /cds=(128,1075)	1	ATTATCGTAACATCCACGAGTGCT GTTGCACTACCATCTATTTGTTGT
3532	Table 3A	Hs.211458	NM_030788	13540584	DC-specific transmembrane protein (LOC81501), mRNA /cds=(51,1463)	1	CCCCACAATGGTCTCTTTTCCCTCG CTCCCTTATTAAAGAACTCTTTCT
3533	cytokine arrays	Hs.46468	NM_031409	14043039	chemokine (C-C motif) receptor 6 (CCR6), transcript variant 2, mRNA /cds=(551,1675)	1	CAGTGGTTCCCATTTGATCTCCCCAT ATCTTTTGTCTCAGGCTCTGGC
3534	Table 3A	Hs.301183	NM_031419	13899228	molecule possessing ankyrin repeats induced by lipopolysaccharide (MAIL), homolog of mouse (MAIL), mRNA /cds=(48,2204)	1	CTTGATCTCTAAATATGGTGTGATAT GAACCAGTCCATTACATTGGAA
3535	Table 3A	Hs.245798	NM_031435	13899258	hypothetical protein DKFZp564I0422 (DKFZP564I0422), mRNA /cds=(510,1198)	1	ACATAGATTTTCTGCCAACAAATCCT CTCTGCTGTTGACATTATCCTTTG
3536	db mining	Hs.238730	NM_031437	13899264	hypothetical protein MGC10823 (MGC10823), mRNA /cds=(63,1235)	1	CAGAGGTGGGAGTAACTGCTGGTAG TGCCCTCTTTGTTGTGTTGCTCAG
3537	Table 3A	Hs.103378	NM_031453	13899290	hypothetical protein MGC11034 (MGC11034), mRNA /cds=(245,640)	1	TTAGAACCAAGTATTCTTAATAAAA ATCACCACATGCTTGGACCATGC
3538	Table 3A	Hs.281397	NM_031480	13899339	hypothetical protein AD034 (AD034), mRNA /cds=(195,1880)	1	GCTCTTACACTTCGTCTTTAATGTTCT TTTTGGAGTTAGGACCTCTCAGT
3539	RG housekeeping genes	Hs.334691	NM_032223	14149927	hypothetical protein FLJ22427 (FLJ22427), mRNA /cds=(40,2631)	1	ACCTTGACATGGGTTGTCTAATAAAA CTCGGACCCTCTTGTGAAATCAA
3540	Table 3A	NA	R11456	764191	spleen 1NFLS cDNA clone IMAGE:129880 5' similar to	1	ATCCCAAGTGCACAGTGAGTTGTAT CACAAATAGGAGGCCACTTCAGGA
3541	RG housekeeping genes	Hs.170222	R14692	768965	Na <sup>+</sup> /H <sup>+</sup> exchanger NHE-1 isoform [human, heart, mRNA, 4516 nt] /cds=(577,3024)	1	GAAGCTGCTAGGGGAAGGACTGGCC TGGCTCCAGAATGTTGTTGCCCTTT
3542	Table 3A	Hs.100896	R18757	772367	yg17e04.r1 cDNA, 5' end /clone=IMAGE:32522 /clone_end=5'	1	GGGAAGGAAAAAGGGGTGGGCAGCT GGGAGCGTTTATTATGTTCTTCT
3543	RG housekeeping genes	Hs.82927	AK025708	10438309	cDNA: FLJ22053 fis, clone HEP09502, highly similar to HUMAMPD2 AMP deaminase (AMPD2) mRNA /cds=UNKNOWN	1	GAGTGTTGTTCCAGATGTGGCTCCC AGAGCTTTGACCAGATTGTGATCCC
3544	RG housekeeping genes	Hs.240013	R44202	822065	mRNA; cDNA DKFZp547A166 (from clone DKFZp547A166) /cds=UNKNOWN	1	CTTTGCATTTAGGGACACAGCCCGGA GCCGAGAAGGTGACGAGGGAGCA

Table 8

3545	RG housekeeping genes	Hs.12163	NM_003908	4503504	DNA sequence from clone RP1-64K7 on chromosome 20q11.21-11.23. Contains the EIF2B2 gene for eukaryotic translation initiation factor 2 subunit 2 (beta, 38kD), a putative novel gene, the gene for heterogenous nuclear ribonucleoprotein RALY or autoantigen P542, an RPS2 (RPS4) (40S ribosomal protein S2) pseudogene, ESTs, STS, GSSs and two CpG islands /cds=(138,1139)	1	CATTGCCTACTTTAACACCTGTCAGA GAAACGTGATATGGGGTAAGGAGG
3546	RG housekeeping genes	Hs.26320	R56088	826194	mRNA for TRABID protein (TRABID gene) /cds=(406,2532)	1	GCAATCTGGGAGCAGCATTGTTGA TGGAGTCCAAGTGAGCACATTTC
3547	Table 3A	Hs.208603	R64054	835933	7f01d11.x1 cDNA, 3' end /clone=IMAGE:3293397 /clone_end=3'	1	CTCTCCTGGAGCTGTTGCAGTTGGGTG TGGCTGATTTGAAATTGTGCTTCA
3548	Table 3A	Hs.181400	R67739	840377	802650370T1 cDNA, 3' end /clone=IMAGE:4761353 /clone_end=3'	1	TAACAAGAATTGCATTGAGGAAACAA GGCTCCACAGGGCCAATCTTCTGG
3549	Table 3A	Hs.161043	R84314	942720	602415728F1 cDNA, 5' end /clone=IMAGE:4523958 /clone_end=5'	1	AAGAAGTTACATCTTCAATGTCCAGG GATGATCGTTTGAAGAGAACCCTCT
3550	Table 3A	NA	R85137	943543	brain N2b4HB55Y cDNA clone IMAGE:180482 5'	1	AAAACATTGCCAGACCATTAGTCCT CTTGGAAAGGGCCTCTCCGGTGGGG
3551	Table 3A	Hs.134025	R88126	946939	UI-H-B12-agg-a-07-0-UI.s1 cDNA, 3' end /clone=IMAGE:2724781 /clone_end=3'	1	AGGGATAATAAGGTAGCTGTAAACC AAGCAACTGAGCTTTTAACCAAAG
3552	Table 3A	Hs.85289	S53911	284768	CD34 antigen (CD34), mRNA /cds=(90,1076)	1	CAAGACACTGTGGACTTGGTCACCAG CTCCTCCCTTGTCTCTAAGTCC
3553	Table 3A	Hs.246381	S57235	298664	CD88 antigen (CD88), mRNA /cds=(15,1078)	1	TCTTTGACGGGGTTTTCCTTGCTCCT GCCAGGATTAAAGTCCATGAGTT
3554	Table 3A	Hs.75256	S59049	299704	regulator of G-protein signalling 1 (RGS1), mRNA /cds=(14,604)	1	CTTAAAGTATATGTTTCAAATTGCCA TTGCTACTATTGCTTGTCCGGTGT
3555	Table 3A	Hs.279518	S60099	300168	amyloid beta (A4) precursor-like protein 2 (APLP2), mRNA /cds=(72,2363)	1	CTCCTGTACCCGGCCTTGTGACATTC ACTCAGAGAAGACCACACCAAGGA
3556	Table 3A	Hs.300697	S62140	386156	mRNA for immunoglobulin lambda heavy chain /cds=(65,1498)	1	GTCGGACTATGTAATTGTAACATAC CTCTGGTTCCTTAAAGTGACC
3557	Table 3A	Hs.249247	S63912	399757	heterogeneous nuclear ribonucleoprotein A3 (HNRPA3), mRNA /cds=(30,839)	1	GCTAGTGTGTAATGCTCTCTTGT GCTCTAATCTGTGCCTCCGTGC
3558	Table 3A	Hs.155924	S68271	545204	cAMP responsive element modulator (CREM), mRNA /cds=(0,998)	1	AGAGGAACCTGAAACCTTGAAGACA TTTGTCTCCCAAACTGATTACT
3559	Table 3A	Hs.89545	S71381	551546	proteasome (prosome, macropain) subunit, beta type, 4 (PSMB4), mRNA /cds=(23,817)	1	ACTGGGATATTGCCACATGATCAGT GGCTTTGAATGAAATACAGATGCA
3560	Table 3A	Hs.179526	S73591	688296	upregulated by 1,25-dihydroxyvitamin D-3 (VDUP1), mRNA /cds=(221,1396)	1	CCAGAAAGTGTGGGCTGAAGATGGT TGGTTTCATGTGGGGGTATTATGTA
3561	Table 3A	Hs.155396	S74017	693841	nuclear factor (erythroid-derived 2)-like 2 (NFE2L2), mRNA /cds=(39,1808)	1	TTTCTTAGACACCATTTGGGCTAGT TTCTGTGAAGTGAATACTACA
3562	Table 3A	Hs.274401	S75463	833998	mRNA; cDNA DKFZp434P086 (from clone DKFZp434P086); partial cds /cds=(798,1574)	1	GAAGGGTTGGCCTGCCTGGCTGGGG AGGTCAGTAACTTTGAATAGTAAG
3563	Table 3A	Hs.73090	S76638	243420	p50-NF-kappa B homolog [human, peripheral blood T cells, mRNA, 3113 nt] /cds=(250,2952)	1	TTAACACCCACACCCACCCCTCAGT TGGGACAAATAAAGGATTCTCATG
3564	Table 3A	Hs.252136	S80990	1911529	ficollin (collagen/fibrinogen domain-containing) 1 (FCN1), mRNA /cds=(92,1072)	1	CAAGCCGCCACATGCCCAACCTC ACCAGAGGGAGAATTATGTTCTAA
3565	Table 3A	Hs.301497	T77017	694220	arginine-tRNA-protein transferase 1-1p (ATE1) mRNA, alternatively spliced product, partial cds /cds=(0,1544)	1	GTGTATTGATCCAAGTAGTCAAAGTG TCTTAAAGGGCACCTATTGTCTCT
3566	Table 3A	Hs.158193	T78173	696682	yd78c05.r1 cDNA, 5' end /clone=IMAGE:114440 /clone_end=5'	1	AGTGCTTCCAAATGTGATTGTTCTG GGTGATGGGACATATGGGCAGTTG
3567	Table 3A	NA	T80378	698887	1N1B cDNA clone IMAGE:24693 5'	1	CGGGGGAATAGGAGGAAAAACATGG CATGGAACAAACACATAAAAGGT
3568	Table 3A	NA	T80654	703539	spleen 1N1FLS cDNA clone IMAGE:108950 5'	1	ACTAATTCTGCTCTTTGGACAAGTGC CTGACATCTGCTTCATTGGGTTTT
3569	Table 3A	Hs.189744	T85880	714232	qz25e11.x1 cDNA, 3' end /clone=IMAGE:2027948 /clone_end=3'	1	AGGAATAAAGTTAAGTATTTCCCACT GGAAATTGTACCACTCCTGGGGT
3570	Table 3A	Hs.327	U00672	482802	interleukin 10 receptor, alpha (IL10RA), mRNA /cds=(61,1797)	1	CCTCTGCCAAAGTACTCTTAGGTGCC AGTCTGGTAAGTGAAGTCCCTCTG
3571	Table 3A	Hs.184592	U00946	405048	protein kinase, lysine deficient 1 (PRKWNK1), mRNA /cds=(0,7148)	1	GTCTGGTAAGCCGATGCTAATGGCA GAAGCAATAGAAGTCCAGGGCACTA
3572	Table 3A	Hs.278857	U01923	460085	heterogeneous nuclear ribonucleoprotein H2 (H) (HNRPH2), mRNA /cds=(78,1427)	1	ACGGGACAATTTTAAGATGTAATACC AATACTTTAGAAGTTTGGTCGTGT



Table 8

3573	Table 3A	Hs.303627	U02019	433343	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA-binding protein 1, 37kD) (HNRPD), transcript variant 1, mRNA /cds=(285,1352)	1	CTCTCAGTTCCTCCCAAGATGGCCCCACA TTCCCATGTGTTTCCCCAAGAGAA
3574	Table 3A	Hs.239138	U02020	404012	pre-B-cell colony-enhancing factor (PBEF), mRNA /cds=(27,1502)	1	GGTTGTTGATTGTACCAAGTGAATG CCAAATTTGAAAGGCTGTACTGC
3575	Table 3A	Hs.172081	U02882	433346	rolipram-sensitive 3',5'-cyclic AMP phosphodiesterase mRNA, complete cds /cds=(108,1922)	1	TTGTTTGCCATCTGTTGATCAGGAAC TACTTCAGCTACTTGCATTGTATT
3576	Table 3A	Hs.75969	U03105	476094	proline-rich protein with nuclear targeting signal (B4-2), mRNA /cds=(113,1098)	1	AATCTACATTTTCTTACCAGGAGCAG CATTGAGGTTTTGAGCATAGTAC
3577	Table 3A	Hs.89421	U03644	476104	CBF1 interacting corepressor (CIR), mRNA /cds=(0,1352)	1	ACAGAGAGCACCAGGAGGTACACA TACTAAAGTGACACAAAGAGAATGA
3578	Table 3A	Hs.154654	U03688	501030	cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1), mRNA /cds=(372,2003)	1	TGTGTGCATAATAGCTACAGTGCATA GTTGTAGACAAAGTACATTCTGGG
3579	Table 3A	Hs.75546	U03851	433307	capping protein alpha mRNA, partial cds /cds=(16,870)	1	AGCATGTTGTTTAAATTTCTTTTAAAA ATCACTGTTGGGCTTTGAAAGCA
3580	Table 3A	Hs.198384	U04636	496975	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) (PTGS2), mRNA /cds=(134,1948)	1	GCTGACAAAACCTGGGAATTTGGGTT GTGTATGCGAATGTTTCAGTGCCCT
3581	Table 3A	Hs.118962	U05040	460151	far upstream element (FUSE) binding protein 1 (FUBP1), mRNA /cds=(26,1960)	1	TCACCTTCCAAATGCCTGTTTTGTGCT TTACAATAAATGATATGAAACCT
3582	Table 3A	Hs.79630	U05259	452561	MB-1 gene, complete cds	1	TTTATGCGTATTTAAGCCTTGGAAAC ACAGGGACTATCTTGTGGATTGGG
3583	Table 3A	Hs.177559	U05875	463549	interferon gamma receptor 2 (interferon gamma transducer 1) (IFNGR2), mRNA /cds=(648,1661)	1	GTCTTGACTTTGGCAAATGAGCCGGA GCCCTTGGGCAGGTCACACAACC
3584	Table 3A	Hs.11197	U07550	469170	heat shock 10kD protein 1 (chaperonin 10) (HSP1), mRNA /cds=(41,349)	1	ACATCCAGTGTCTCCAAAATTGTTTC CTTGACTGATATAAACACTTCCA
3585	Table 3A	Hs.78909	U07802	984508	Tis11d gene, complete cds /cds=(291,1739)	1	GGTACAGTTGGAGCACTATATGTACT CTCTGGACTACTTTGGACAGAAGT
3586	Table 3A	Hs.173965	U08316	475587	ribosomal protein S6 kinase, 90kD, polypeptide 3 (RPS6KA3), mRNA /cds=(0,2222)	1	AAATCACCTCAACAGCCCTGTGAAG TGACCTCAGTGAGATATTTGGATC
3587	Table 3A	Hs.170171	U08626	551473	glutamine synthetase pseudogene	1	TTAAAGTGCACCTTCCAAAATGTCTC CCATAAGTAGGTAAGACCAACCTG
3588	Table 3A	Hs.333513	U10117	498909	small inducible cytokine subfamily E, member 1 (endothelial monocyte-activating) (SCYE1), mRNA /cds=(49,987)	1	AATGATGAGTGTGTGGCTACATACAA AGGAGTTCCTTTGAGGTGAAAGG
3589	Table 3A	Hs.40202	U10485	505685	lymphoid-restricted membrane protein (LRMP), mRNA /cds=(574,2241)	1	GGGAAAGTATAGCATGAAACCAGAG GTTCTCAGAATGACCGTAAGATAGC
3590	Table 3A	Hs.79022	U10550	762886	GTP-binding protein overexpressed in skeletal muscle (GEM), mRNA /cds=(213,1103)	1	TGGTTGACCCCTTGATGTCACAGCTC TGCTCTATTTATTATTATTTGCA
3591	Table 3A	Hs.194778	U11870	511804	interleukin 8 receptor, alpha (IL8RA), mRNA /cds=(100,1152)	1	TTGTCCACAAGTAAAGGAAATCCTC CTCCAGGGAGTCTCAGCTTCACCC
3592	Table 3A	Hs.80561	U12767	924281	mitogen induced nuclear orphan receptor (MINOR) mRNA, complete cds /cds=(209,1972)	1	CATTGCTCTTTAGTGTGTGTTAACCT GTGGTTTGAAAGAAATGCTCTTGT
3593	Table 3A	Hs.184411	U13044	531892	albumin (ALB), mRNA /cds=(39,1868)	1	GTCTGGCTTAACATATTTTGAATAAT AACTGTTTCCCTCTCTGCTGCT
3594	Table 3A	Hs.78915	U13045	531894	GA-binding protein transcription factor, beta subunit 1 (53kD) (GABPB1), transcript variant beta, mRNA /cds=(169,1356)	1	AAAAGCAATTACCCTTAAACTGTACT CTGGCTACTTTTCTATTTTGCA
3595	Table 3A	Hs.1162	U15085	557701	major histocompatibility complex, class II, DM beta (HLA-DMB), mRNA /cds=(233,1024)	1	GGCTCTCAGTGTGCCATAGAGGACA GCAACTGGTGAATGTTTCAGAGAAA
3596	Table 3A	Hs.155596	U15173	558843	BCL2/adenovirus E1B 19kD-interacting protein 2 (BNIP2), mRNA /cds=(211,1155)	1	AAACTGTTTCTTTGGTGTCTTTACAT TGAAATAAATGTGTTTGTGCCT
3597	Table 3A	Hs.2128	U15932	9911129	dual specificity phosphatase 5 (DUSP5), mRNA /cds=(210,1364)	1	ACCCGTGTGAATGTGAAGAAAAGCAG TATGTTACTGGTTGTTGTTGTTGT
3598	Table 3A	Hs.64639	U16307	1100927	glioma pathogenesis-related protein (RTVP1), mRNA /cds=(128,928)	1	AGAGAGGGAACATCAAATGCTGGCA CTATATACATCAGTACGCTGATT
3599	Table 3A	Hs.183105	U17989	805094	nuclear autoantigen (GS2NA), mRNA /cds=(204,2345)	1	GTCTTCCGAGAACTTTCTGATCAG TTTGCGAGTTTGTGATGATTTGT
3600	Table 3A	Hs.155188	U18062	642794	TATA box binding protein (TBP)-associated factor, RNA polymerase II, F, 55kD (TAF2F), mRNA /cds=(740,1789)	1	GCTGCTGTGTGCTTTGTGATGACG TGAGATCAATAAGAGAACCTAGT



Table 8

3601	Table 3A	Hs.2488	U20158	806765	lymphocyte cytosolic protein 2 (SH2 domain-containing leukocyte protein of 76kD) (LCP2), mRNA /cds=(207,1808)	1	AGGACTGAACTGAACCCCTCCCCATG AACACAAGGGTTTATCCTTTCT
3602	Table 3A	Hs.78913	U20350	665580	G protein-coupled receptor V28 mRNA, complete cds /cds=(87,1154)	1	GATGTGGTAACTGTTAAATGTCTGTG TATCTGATAGCTCTTGGCAGTCT
3603	Table 3A	Hs.154230	U22897	984286	nuclear domain 10 protein (NDP52), mRNA /cds=(54,1394)	1	GATCAAAGGGCTATGGGAAGGGCA GACCCCGCAATGATTCTCTTCAC
3604	Table 3A	Hs.2437	U23028	806853	eukaryotic initiation factor 2B-epsilon mRNA, partial cds /cds=(0,1925)	1	GAACAGCTTTGTGCTCCGGCTTTCCC TCAGGGAACAGCAGAGAGCAGTTG
3605	Table 3A	Hs.93304	U24577	1314245	phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) (PLA2G7), mRNA /cds=(161,1486)	1	TCCAGGGACCAACATTAAACACAACCA ATCAACACATCATGTTACAGAAGT
3606	Table 3A	Hs.278625	U24578	1125049	RP1 and complement C4B precursor (C4B) genes,	1	TATTAAGGCTTTTGGCAGCAAAGTG TCAGTGTGGCAGCGAAGTGTCTAG
3607	Table 3A	Hs.3144	U26710	862406	Cas-Br-M (murine) ectropic retroviral transforming sequence b (CBLB), mRNA /cds=(322,2634)	1	TTCAACAAGTGTCTTGAAGGTCTGA TTTTCACTGATCAAACATATGCTA
3608	Table 3A	Hs.1724	U29607	903981	interleukin 2 receptor, alpha (IL2RA), mRNA /cds=(159,977)	1	ACTAATTGATGTTTACAGGTGGACA CACAAGGTGCAAAATCAATGCGTAC
3609	Table 3A	Hs.75981	U30888	940181	ubiquitin specific protease 14 (IRNA-guanine transglycosylase) (USP14), mRNA /cds=(91,1575)	1	ACTGTACAATTTCTGAAGATGGTTATT AACACTGTGCTGTTAAGCATCCA
3610	Table 3A	Hs.845	U31120	1045451	interleukin-13 (IL-13) precursor gene, complete cds	1	CTGTGTCTGGCACCACCCACACATCC ATGTCTCCCTCACAACCCAGGAGG
3611	Table 3A	Hs.64310	U32324	975336	interleukin 11 receptor, alpha (IL11RA), mRNA /cds=(5,1273)	1	CATGTATGTAGGTGCTCGGAGTGT GTGTGGTCTTGTCTGTGGCCCTTTC
3612	Table 3A	Hs.41724	U32659	1155222	interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8) (IL17), mRNA /cds=(53,520)	1	ATTCAATTCAGAGTAGTTTCAAGTTT CACATCTGTAACATTTTCGCCCGC
3613	Table 3A	Hs.108327	U32986	1136227	damage-specific DNA binding protein 1 (127kD) (DDB1), mRNA /cds=(109,3531)	1	TCTTCGGAAAGAAGAGGTGGGAGG ATGTGAATTGTTAGTTTCTGAGTTT
3614	Table 3A	Hs.32970	U33017	984968	signaling lymphocytic activation molecule (SLAM), mRNA /cds=(133,1140)	1	ATCAAGCCTCTGTGCCTCAGTTTCTC TCTCAGGATAAAGAGTGAATAGAG
3615	Table 3A	Hs.2533	U34252	1049218	aldehyde dehydrogenase 9 (gamma-aminobutyraldehyde dehydrogenase, E3 isozyme) (ALDH9), mRNA /cds=(377,1858)	1	GCGATAGAGGAAATCTACTCCCTATC TTGGGTCTTGAACACTACAGCCTGC
3616	Table 3A	Hs.169476	U34995	1497857	Homo sapiens, glyceraldehyde-3-phosphate dehydrogenase, clone MGC:10926 IMAGE:3628129, mRNA, complete cds /cds=(2306,3313)	1	CTAGGGAGCCGCACCTTGTATGTAC CATCAATAAAGTACCCTGTGCTCA
3617	Table 3A	Hs.289107	U37547	1145292	baculoviral IAP repeat-containing 2 (BIRC2), mRNA /cds=(1159,3015)	1	TTTCTCCCCCTAGTTTGTGAGAAACA TCTCAATAAAGTGCTTTCCAAAAA
3618	Table 3A	Hs.154057	U38320	2228241	matrix metalloproteinase 19 (MMP19), transcript variant ras1-3, mRNA /cds=(1642,1899)	1	TCCCATCAAAAAGGTATCAAAATGCCT TGGAAAGCTCCCTGATCCTACAAAA
3619	Table 3A	Hs.151518	U38847	1184691	TAR (HIV) RNA-binding protein 1 (TARBP1), mRNA /cds=(0,4865)	1	TGCCAAAAGTTTGCCATGTGCCTTAA ACATATTACTATATATTTTCCCTT
3620	Table 3A	Hs.75916	U41371	1173904	splicing factor 3b, subunit 2, 145kD (SF3B2), mRNA /cds=(48,2666)	1	CAGTTCCCAAGGACTGTGCTATTTCAT GTTCTTATTTAGACCTGTTTTGT
3621	Table 3A	Hs.169531	U41387	1230563	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 21 (DDX21), mRNA /cds=(265,2412)	1	TTACCAAGAAGGACTTAAGGGAGTAA GGGGCGCAGATTAGCATTGCTCAA
3622	Table 3A	Hs.57304	U41654	2058395	Ras-related GTP-binding protein (RAGA), mRNA /cds=(31,972)	1	GATATGCACATCAAAGCCTTTACCAG TATCTTCTGTATTCGGTATCAGA
3623	Table 3A	Hs.167503	U43185	1151169	signal transducer and activator of transcription 5A (STAT5A), mRNA /cds=(640,3024)	1	CTCTGAGCGTGAGGACTCGCAGTC AGGGGCAGCTGACCATGGAAGATTG
3624	Table 3A	Hs.54460	U46573	1280140	small inducible cytokine subfamily A (Cys-Cys), member 11 (eotaxin) (SCYA11), mRNA /cds=(53,346)	1	CCTCTCTTCTCCCTGGAATCTTGTA AAGTCTTGCCAAAGATGATCAGT
3625	Table 3A	Hs.279891	U46751	3077821	truncated calcium binding protein (LOC51149), mRNA /cds=(219,695)	1	GCCTCCTGGTCTCTTACCACCTGTAG TTCTCTCAATTCCAAACCATCAGC
3626	Table 3A	Hs.155637	U47077	13570016	DNA-dependent protein kinase catalytic subunit (DNA-PKcs) mRNA, complete cds /cds=(57,12443)	1	TTTCTCTTCTAACACTTGATTTGGAG GCTCTTCTGTGATTTTGAGAAGT
3627	Table 3A	Hs.306359	U50078	4220427	clone 25038 mRNA sequence /cds=UNKNOWN	1	TGAATTGCCTGTTTCAGGGTTCCTTAT GCAGAGAAATAAGCAGATTCAGG
3628	Table 3A	Hs.173824	U51166	1378106	thymine-DNA glycosylase (TDG), mRNA /cds=(399,1631)	1	GGACATCCACTAGAGATGGGTTTGAG GATTTTCCAAGCGTGAATAATGA
3629	Table 3A	Hs.78993	U51903	1262925	IQ motif containing GTPase activating protein 2 (IQGAP2), mRNA /cds=(222,4949)	1	TTGCACGCAGAGCCTTTAAGTGACTA AGGAACAACATAGATAGTGAGCAT
3630	Table 3A	Hs.74170	U52054	1377850	602708243F1 cDNA, 5' end /clone=IMAGE:4844914 /clone_end=5'	1	ACTTTAATCTGATCTTGTGCTTAGAG AAGCCCCATACCTGGTAGAGCA

Table 8

3631	Table 3A	Hs.82132	U52682	1378108	interferon regulatory factor 4 (IRF4), mRNA /cds=(105,1460)	1	TGTAGGAAAGGATGCTTCACAACTG AGGTAGATAATGCTATGCTGTCTG
3632	Table 3A	Hs.82132	U52682	1378108	interferon regulatory factor 4 (IRF4), mRNA /cds=(105,1460)	1	TGTAGGAAAGGATGCTTCACAACTG AGGTAGATAATGCTATGCTGTCTG
3633	Table 3A	Hs.183556	U53347	1478280	solute carrier family 1 (neutral amino acid transporter), member 5 (SLC1A5), mRNA /cds=(590,2215)	1	CTGGGGAGAGGCTGAGGACAAATAC CTGCTGTCACTCCAGAGGACATTTT
3634	Table 3A	Hs.333527	U53530	1314642	cDNA FLJ13685 fis, clone PLACE2000039, highly similar to DYNEIN HEAVY CHAIN, CYTOSOLIC /cds=UNKNOWN	1	CATTACTTGTGAGCTGCTGAACAAAC AAGTCAAGGTGAGCCCGGACATGG
3635	Table 3A	Hs.58189	U54559	2351379	eukaryotic translation initiation factor 3, subunit 3 (gamma, 40kD) (EIF3S3), mRNA /cds=(5,1063)	1	AAGAAGTTAACATGAACCTTTGAAGT CACACCAGGGCAACTCTTGAAGA
3636	Table 3A	Hs.44585	U58334	1399804	tumor protein p53-binding protein, 2 (TP53BP2), mRNA /cds=(756,3773)	1	GAAACTTGCTACAGACTTACCCGTAA TATTTGTCAAGATCATAGCTGACT
3637	Table 3A	Hs.169191	U58913	4204907	small inducible cytokine subfamily A (Cys-Cys), member 23 (SCYA23), mRNA /cds=(71,433)	1	TGGACACACGGATCAAGACCAGGAA GAATTGAACCTGTCAAGGTGAAGGG
3638	Table 3A	Hs.11383	U59808	4097420	small inducible cytokine subfamily A (Cys-Cys), member 13 (SCYA13), mRNA /cds=(75,371)	1	TGCTAAATATGTTATTGTGGAAGAT GAATGCAATAGTAGACTGCTGAC
3639	Table 3A	Hs.79089	U60800	1663566	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D (SEMA4D), mRNA /cds=(87,2875)	1	AGCAATAAACTCTGGATGTTTGTGCG CGTGTGTGACAGTCTTATCTTCC
3640	Table 3A	Hs.238648	U60805	1794210	oncostatin M receptor (OSMR), mRNA /cds=(367,3306)	1	TCCTCTTTTCTTTCAAGAACTATATAT AAATGACCTGTTTTACCGCGGCC
3641	Table 3A	Hs.77256	U61145	1575348	enhancer of zeste (Drosophila) homolog 2 (EZH2), mRNA /cds=(57,2297)	1	AGCTGCAAAGTGTGTTGTACCACTGA ATTTTTGCAATAATGCAGTATGGT
3642	Table 3A	Hs.30035	U61287	1418285	splicing factor, arginine/serine-rich (transformer 2 Drosophila homolog) 10 (SFRS10), mRNA /cds=(121,987)	1	TTGCTTACCAAAGGAGGCCCAATTTT ACTCAAATGTTTTGAGAACTGTGT
3643	Table 3A	Hs.155935	U62027	1511643	complement component 3a receptor 1 (C3AR1), mRNA /cds=(0,1448)	1	ACATAGTGAAAGTTTATAAGAGGATG AAGTGATATGGTGAGCAGCGGACT
3644	Table 3A	Hs.177584	U62961	1519051	3-oxoacid CoA transferase (OXCT), nuclear gene encoding mitochondrial protein, mRNA /cds=(98,1660)	1	AACAGCCTTTCTGGCTGACCACTGG TTAAATGCATACCTTCCAGTACT
3645	Table 3A	Hs.75498	U64197	1778716	small inducible cytokine subfamily A (Cys-Cys), member 20 (SCYA20), mRNA /cds=(58,348)	1	TGTGCCTCACCTGGACTTGTCCAATT AATGAAGTTGATTCATATTGCATC
3646	Table 3A	Hs.73165	U64198	1685027	interleukin 12 receptor, beta 2 (IL12RB2), mRNA /cds=(640,3228)	1	CTATAGATGAAGACATAAAAGACACT GGTAAACACCAATGTAAAGGGGCC
3647	Table 3A	Hs.279939	U65590	1794218	mitochondrial carrier homolog 1 (MTCH1), nuclear gene encoding mitochondrial protein, mRNA /cds=(0,1118)	1	AGCTGTTGATGCTGTTGGACAGGTT TGAGTCAAATTGTACTTTGCTCCA
3648	Table 3A	Hs.73172	U67369	1698691	growth factor independent 1 (GF11), mRNA /cds=(267,1535)	1	TGGGAAGGAAGGCTCTGTCTTCAACT CTTTGACCCCTCATGTGTACCATA
3649	Table 3A	Hs.84264	U70439	1698782	Homo sapiens, acidic protein rich in leucines, clone MGC:8650 IMAGE:2961642, mRNA, complete cds /cds=(211,966)	1	GATTCTTGCTGTAGCGTGGATAGCTG TGATTGGTGAGTCAACCGTCTGTG
3650	Table 3A	Hs.82116	U70451	1763090	myeloid differentiation primary response protein MyD88 mRNA, complete cds /cds=(32,922)	1	TGGGCATTTTAAAGCCATCTCAAGAG GCATCTTCTACATGTTTGTACGC
3651	Table 3A	Hs.117005	U71383	2411474	sialic acid binding Ig-like lectin 5 (SIGLEC5), mRNA /cds=(142,1797)	1	AAGTCAGGAGCACTTGTCTGAAGCA CGAAGAGCCCTTGTGGCAATGTTAA
3652	Table 3A	Hs.12045	U72514	2276395	Homo sapiens, Similar to gene rich cluster, C2f gene, clone MGC:16358 IMAGE:3927564, mRNA, complete cds /cds=(278,733)	1	GACTGCTGGAAGATGATCTTTCTGCA CTGAGACTGTGGAGTTGGGGAAG
3653	Table 3A	Hs.183684	U73824	1857236	eukaryotic translation initiation factor 4 gamma, 2 (EIF4G2), mRNA /cds=(308,3029)	1	TTGTGGGTGTGAACAAATGGTGAGA ATTGAATTGGTCCCTCTATTAT
3654	Table 3A	NA	U75686	2801402	Poly(A)-binding protein, cytoplasmic 4 (inducible form)	1	AATTCCAGCTGAGCGCGGTGCGCTA CCATTACCGTTGGTCTTGGTGTCAA
3655	Table 3A	Hs.20191	U76248	2673967	hSLAH2 mRNA, complete cds /cds=(526,1500)	1	CCCCAACCCCTCAAATTAACCTAGAA CTATAGATCCCATGGAACGCACGC
3656	Table 3A	Hs.81381	U76713	1814273	heterogeneous nuclear ribonucleoprotein A/B (HNRPA/B), transcript variant 1, mRNA /cds=(224,1219)	1	AGCTTTTGAATAAAATTTAAACCC CAAGCCTGGGTGAGTGTGGGAAA
3657	Table 3A	Hs.76507	U77396	1684871	LPS-induced TNF-alpha factor (PIG7), mRNA /cds=(233,919)	1	TCTGTAATCAAATGATTGGTGTCAATT TCCCATTTGCCAATGTAGTCTCA
3658	Table 3A	Hs.78103	U77456	1679778	nucleosome assembly protein 1-like 4 (NAP1L4), mRNA /cds=(149,1276)	1	GCCCCACCATTCATCTGTCTGAAGG TCCTGGGTTTGGTGTGACCCGCTG
3659	Table 3A	Hs.80205	U77735	1750275	pim-2 oncogene (PIM2), mRNA /cds=(185,1189)	1	TTCTGGCCTGGATTATTTAAAGGCC ATGTGTGGAACCCACTATTTAAT

Table 8

3660	Table 3A	Hs.55481	U78722	1699000	zinc finger protein 165 (ZNF165), mRNA /cgs=(567,2024)	1	AGCCTTCAGTCAGAGCTCAAACCTTA
3661	Table 3A	Hs.71848	U79277	1710245	clone 23548 mRNA sequence /cgs=UNKNOWN	1	GTCAACACCAGAGAATTACATGA
3662	Table 3A	Hs.173854	U80735	2565045	CAGF28 mRNA, partial cds /cgs=(0,2235)	1	GAATTTTCAGTTTGTGCTTACATTTTC
3663	Table 3A	Hs.306094	U80743	2565060	mRNA for KIAA1818 protein, partial cds /cgs=(0,3473)	1	TAACATTGGATGTTTGTCTTGGC
3664	Table 3A	Hs.181466	U81002	4580010	cDNA FLJ14502 fis, clone NT2RM1000244, highly similar to TRAF4 associated factor 1 mRNA /cgs=UNKNOWN	1	TATGACTTTAAGAGCCACATTAGGT
3665	Table 3A	Hs.161002	U82828	2072424	non-lens beta gamma-crystallin like protein (AIM1) mRNA, partial cds /cgs=(0,4913)	1	TTTATGATTCAATTTGCCAGGTTTT
3666	Table 3A	Hs.334457	U83115	2623760	Aac11 (aac11) mRNA, complete cds /cgs=(77,1663)	1	GGCGTGCCGTGAGGGGGAAAACGA
3667	Table 3A	Hs.80420	U83857	1888522	small inducible cytokine subfamily D (Cys-X3-Cys), member 1 (fractalkine, neurotactin) (SCYD1), mRNA /cgs=(79,1272)	1	AGCCCACTATTGCTACTGTTTTTC
3668	Table 3A	Hs.154695	U84487	2218086	phosphomannomutase 2 (PMM2), mRNA /cgs=(48,788)	1	CTCTTGGGCATAAAATCTCAGACGAA
3669	Table 3A	Hs.50404	U85773	2388626	small inducible cytokine subfamily A (Cys-Cys), member 25 (SCYA25), mRNA /cgs=(0,452)	1	GCTACTTAGGACATCATCTTGGCC
3670	Table 3A	Hs.162808	U86453	2317893	phosphatidylinositol 3-kinase catalytic subunit p110delta mRNA, complete cds /cgs=(195,3329)	1	TCTACAGTAGCCTGTGCTGAAGTGAT
3671	Table 3A	Hs.74407	U86602	1835785	nucleolar protein p40; homolog of yeast EBNA1-binding protein (P40), mRNA /cgs=(142,1062)	1	CTCTTAAATAAACTTGCTTCTGGT
3672	Table 3A	Hs.5181	U87954	4099505	proliferation-associated 2G4, 38kD (PA2G4), mRNA /cgs=(97,1281)	1	TTCTCAAGTTTGATACTGAGTTGACT
3673	Table 3A	Hs.173334	U88629	1946346	ELL-RELATED RNA POLYMERASE II, ELONGATION FACTOR (ELL2), mRNA /cgs=(0,1922)	1	GTTCCCTTATCCCTCACCGTTCCC
3674	Table 3A	Hs.169963	U90543	2062687	butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA /cgs=(210,1793)	1	AGACTTTTCCAAACCTCATCACGCAAC
3675	Table 3A	Hs.167741	U90548	2062697	butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA /cgs=(171,1925)	1	GTCTGTGCCATTTTGTATTTTACT
3676	Table 3A	Hs.284283	U90552	2062705	butyrophilin (BTF5) mRNA, complete cds /cgs=(359,1900)	1	CCAGCGGCATCTTTCCTTGTGCAATG
3677	Table 3A	Hs.83724	U90904	1913882	Homo sapiens, clone IMAGE:3451448, mRNA, partial cds /cgs=(0,901)	1	ATACTGTAATGACCTTCCAAAGTG
3678	Table 3A	Hs.279948	U93243	6649661	HSPC205 mRNA, complete cds /cgs=(190,681)	1	TCTGGTCATTCAGGATCCCTCCCA
3679	Table 3A	Hs.7811	U94855	2055430	eukaryotic translation initiation factor 3, subunit 5 (epsilon, 47kD) (EIF3S5), mRNA /cgs=(6,1079)	1	AGGCTATGCTTTTCTATAACTTTT
3680	Table 3A	Hs.326248	U96628	2343084	cDNA: FLJ22071 fis, clone HEP11891 /cgs=UNKNOWN	1	TGTGGGTTGAGACCAGCACTCTGTGA
3681	Table 3A	Hs.195175	U97075	2253680	mRNA for CASH alpha protein /cgs=(481,1923)	1	AACCTTGAAATGAGAAGTAAAGGC
3682	Table 3A	Hs.308026	V00522	32122	major histocompatibility complex, class II, DR beta 5 (HLA-DRB5), mRNA /cgs=(29,829)	1	TGAATACAAAGAACCAAGAAAAAGGA
3683	Table 3A	Hs.25647	V01512	29903	cellular oncogene c-fos (complete sequence)	1	ATGAAGACTCGCAATTCACGACA
3684	Table 3A	Hs.44189	W00466	1271875	yz99f01.r1 cDNA, 5' end /clone=IMAGE:291193 /clone_end=5'	1	CTGAATTTGGTTTTGGGAGGTGAGGC
3685	Table 3A	NA	W00491	1271910	2NbHM cDNA clone IMAGE:291255 5' similar to	1	TTCCCAACACCGGAAGACTACTTT
3686	Table 3A	NA	W02600	1274578	spleen 1NFLS cDNA clone IMAGE:296099 5'	1	GGCTCACATCAAAAGGCTAATAGGTG
3687	Table 3A	NA	W03955	1275820	za62d04.r1 cDNA, 5' end /clone=IMAGE:297127 /	1	AATTTGACCAACGCAAGCAGAGT
3688	Table 3A	Hs.308117	W16552	1290934	capicua protein (CIC) mRNA, complete cds /cgs=(40,4866)	1	ATATTCTTCAACTGCTGCCTGC
3689	Table 3A	Hs.17778	W19201	1295429	neuropilin 2 (NRP2), mRNA /cgs=(0,2780)	1	TGGTGGATGTTAAACCAATATTCCCTT
3690	Table 3A	Hs.235883	W19487	1295576	602628774F1 cDNA, 5' end /clone=IMAGE:4753483 /clone_end=5'	1	CAACTGCTGCCTGCTAGGGAAAA
3691	Table 3A	Hs.340717	W25068	1302933	we58c01.x1 cDNA, 3' end /clone=IMAGE:2345280 /clone_end=3'	1	CAGCTCTGGGAAATAGAAGACTAGG
3692	Table 3A	Hs.173334	W47229	1331869	ELL-RELATED RNA POLYMERASE II, ELONGATION FACTOR (ELL2), mRNA /cgs=(0,1922)	1	GTTGTTTCTTAAATTTAGCTCATGT

Table 8

3693	Table 3A	NA	W56487	1358345	zc59c07.r1 Soares_parathyroid_tumor_NbHPA cDNA clone	1	TCAATTGAGGCCCTTCCCTAAGATT ACAACATTGATAACCTGTCTTTT
3694	Table 3A	Hs.21812	W74397	1384683	AL562895 cDNA /clone=CS0DC021YO20-(3-prime)	1	CAGCCCTCCGTCGCTTTTATAAAAC TTTGTGTGAGAAGAATATATGAT
3695	Table 3A	Hs.163846	W79598	1390869	putative NS-DNA-methyltransferase (NBAMT1), mRNA /cds=(29,673)	1	ACTTCAGATCCTTTTGTGTTAAATAA AGGAAAAGCTGCACATCCAAAAA
3696	Table 3A	Hs.8294	W80882	1391906	KIAA0196 gene product (KIAA0196), mRNA /cds=(273,3752)	1	AGCCTACCTCCTACCCAGCTGTCTG TTGAGAGCAGTGTGACCCAGCA
3697	Table 3A	Hs.303157	X00437	36748	mRNA for T-cell specific protein /cds=(37,975)	1	GAAGAGCTGCTCTCACCTCTCTGCAT CCCAATAGATATCCCCCTATGTGC
3698	Table 3A	Hs.75514	X00737	35564	nucleoside phosphorylase (NP), mRNA /cds=(109,978)	1	GGGCTCAGTTCTGCCTTATTAATC ACCAGAGACCAACCAAGGACTAAT
3699	Table 3A	Hs.1724	X01057	33812	interleukin-2 receptor	1	AAATACAAACATTCTAATTAAGGCTT TGCAACACATGCCCTTGTCTGTTT
3700	Table 3A	Hs.95327	X01451	36774	CD3D antigen, delta polypeptide (TIT3 complex) (CD3D), mRNA /cds=(0,515)	1	GCCATTACCACTGTACCTTCCCTTC TTGCTCAGCCAATAAATATATCCT
3701	Table 3A	Hs.1103	X02812	37092	transforming growth factor, beta 1 (TGFB1), mRNA /cds=(841,2018)	1	CACCAGGAACCTGCTTTAGTGGGGG ATAGTGAAGAAGCAATAAAGATA
3702	Table 3A	Hs.1217	X02994	28379	adenosine deaminase (ADA), mRNA /cds=(95,1186)	1	TGGGATGGTTGAATCTGAAACCCCTC CTTCTGTGGCACTTGTACTGAAA
3703	Table 3A	Hs.2233	X03656	31687	gene for granulocyte colony-stimulating factor (G-CSF)	1	CTGGGGAGGAGGTCCAGGGAGGAG GAGGAAAGTTCTCAAGTCTGTCTGAC
3704	Table 3A	Hs.174142	X03663	29899	colony stimulating factor 1 receptor, formerly McDonough feline sarcoma viral (v-fms) oncogene homolog (CSF1R), mRNA /cds=(300,3218)	1	AACTAACAGTCACGCCGTGGGATGTC TCTGTCCACATTAACCAACAGCA
3705	Table 3A	Hs.14376	X04098	28338	actin, gamma 1 (ACTG1), mRNA /cds=(74,1201)	1	GGTTTTCTACTGTTATGTGAGAACATT AGGCCCCAGCAACACGTCATTGT
3706	Table 3A	Hs.74451	X04106	35327	calpain 4, small subunit (30K) (CAPN4), mRNA /cds=(158,984)	1	TTTGTCTATATTCTGCTCCAGCCTG CCAGGCCAGGAGGAATAAATCATT
3707	Table 3A	Hs.198365	X04327	29480	2,3-bisphosphoglycerate mutase (BPGM), mRNA /cds=(110,889)	1	TTCTCTTTGGCCACAAGAATAAGCA GCAAAATAACAACATTTGGCTGTG
3708	Table 3A	Hs.58685	X04391	37186	CD5 antigen (p56-62) (CD5), mRNA /cds=(72,1559)	1	CTCATCTAAAGACACCTTCCCTTCCA CTGGCTGTCAAGCCACGGGCACC
3709	Table 3A	Hs.93913	X04430	32673	interleukin 6 (interferon, beta 2) (IL6), mRNA /cds=(62,700)	1	GCAGTTTGAATATCCTTTTTCAGAG GCCAGATCATTCTTGGAAAGTGT
3710	Table 3A	Hs.2253	X04481	34627	complement component 2 (C2), mRNA /cds=(36,2294)	1	CCCTGGTTGACTTGACTCATGCTTGT TTCACTTTACATGGAATTTCCCA
3711	Table 3A	Hs.2247	X04688	33835	interleukin 5 (colony-stimulating factor, eosinophil) (IL5), mRNA /cds=(44,448)	1	TCAGAGGGAAAGTAAATATTACGGC ATACTGACACTTTGCCAGAAGCA
3712	Table 3A	Hs.79015	X05323	34742	MRC OX-2 gene signal sequence	1	CACAAGGTAAAGAACTCAATTCCCC TGCTTGGAGCCCAGCAACACAAT
3713	Table 3A	Hs.78225	X05908	34387	annexin A1 (ANXA1), mRNA /cds=(74,1114)	1	TGTGGAGGAACTAAACATTCCTCTG ATGGTCTCAAGCTATGATCAGAA
3714	Table 3A	Hs.36972	X06180	29819	CD7 antigen (p41) (CD7), mRNA /cds=(0,722)	1	GGAGGAGACCACTCCCCACCCAGC CGTACCAGAAATAAGGCTTCTGTG
3715	Table 3A	Hs.81665	X06182	34084	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog (KIT), mRNA /cds=(21,2951)	1	TGTGTAATACATAAGCGGCGTAAGT TTAAAGGATGTTGGTGTCCACGT
3716	Table 3A	Hs.173255	X06347	37540	small nuclear ribonucleoprotein polypeptide A (SNRPA), mRNA /cds=(125,973)	1	CGCTGTTAGGCCGGAATTAAGTGG CTTTTTGAGGTTTGGTTTTTACAA
3717	db mining	Hs.2014	X06557	37003	mRNA for T-cell receptor delta /cds=UNKNOWN	1	GGGGTTTATGTCCTAAGTCTTTGTA TGCTGTTTATAAAGGGATAGAAG
3718	Table 3A	Hs.153003	X06956	32014	serine/threonine kinase 16 (STK16), mRNA /cds=(118,1050)	1	ACACCAACCTGCTTCCACTTTATCTT GTTTACACATTCTCGTCTCCCA
3719	Table 3A	Hs.77202	X07109	35492	protein kinase C, beta 1 (PRKCB1), mRNA /cds=(136,2151)	1	AAGATGTTTGTGGAAATGTTCAATTGT ATCTGGATCTCTGTTATGTGCCA
3720	Table 3A	Hs.89751	X07203	29775	membrane-spanning 4-domains, subfamily A, member 2 (Fc fragment of IgE, high affinity I, receptor for; beta polypeptide) (MS4A2), mRNA /cds=(90,983)	1	GAGTTACCACACCCCATGAGGGGAA CTCTAAATAGCCAACACCCATCTGT
3721	Table 3A	Hs.77436	X07743	35517	pleckstrin (PLEK), mRNA /cds=(60,1112)	1	TTCTGAAGCTGTTCCCACTCCCGA TGGTTTTATCAATAGCCTAGAGGT
3722	Table 3A	Hs.318885	X07834	36517	superoxide dismutase 2, mitochondrial (SOD2), mRNA /cds=(4,672)	1	TACTTTGGGGACTTGTAGGGATGCCT TTCTAGTCTATTCTATTGCAGTT
3723	Table 3A	Hs.78056	X12451	29714	cathepsin L (CTSL), mRNA /cds=(288,1289)	1	TGGAATCATTGAAGATCCGAGTGTGA TTTGAATTTCTGTGATATTTTACAA
3724	Table 3A	Hs.193400	X12830	33845	interleukin 6 receptor (IL6R), mRNA /cds=(437,1843)	1	ATATCCAATATTGCTGTGTGCAGAT AGAAGTAACCTTACTTAGGTGTGGG
3725	Table 3A	Hs.856	X13274	32691	interferon, gamma (IFNG), mRNA /cds=(108,608)	1	TTGTTGACAACTGTGACTGTACCCAA ATGGAAAGTAACCTATTGTTTAA
3726	Table 3A	Hs.2299	X13444	29826	CD8 antigen, beta polypeptide 1 (p37) (CD8B1), mRNA /cds=(50,682)	1	AAGTTTCTCAGCTCCCATTCTACTCT CCCATTGGCTTCATGCTTCTTTCA
3727	Table 3A	Hs.234489	X13794	34314	lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27)	1	TCTCCATGTTGTCAAAATCATGCCGT TTATAGCTATTTTACCTCAGTGG

Table 8

3728	literature	Hs.89137	X13916	34338	low density lipoprotein-related protein 1 (alpha-2-macroglobulin receptor) (LRP1), mRNA /cds=(466,14100)	1	GCCCCGTTTTGGGGACGTGAACGTTT TAATAATTTTTGCTGAATCTTTA
3729	Table 3A	Hs.82120	X14008	34433	nuclear receptor subfamily 4, group A, member 2 (NR4A2), mRNA /cds=(317,2113)	1	AGGTGGGCACAAAGTATTACACATCAG AAAATCCTGACAAAAGGACACAT
3730	Table 3A	Hs.77424	X14356	31331	Fc fragment of IgG, high affinity Ia, receptor for (CD64) (FCGR1A), mRNA /cds=(0,1124)	1	GTTCAACAACACCAGAACTGTGTGTC TCATGGTATGTAACCTCTTAAAGCA
3731	Table 3A	Hs.87409	X14787	37464	thrombospondin 1 (THBS1), mRNA /cds=(111,3623)	1	TTGACCTCCCATTCTTACTATTGCGCA ATACCTTTTTCTAGGAATGTGCT
3732	Table 3A	Hs.289088	X15183	32487	heat shock 90kD protein 1, alpha (HSPCA), mRNA /cds=(60,2258)	1	AAAGCTGTCAAATACTCGAGCCCAG TCTTGTGGATGGAAATGATGTGCT
3733	Table 3A	Hs.339703	X16277	35137	zv26f06.r1 cDNA, 5' end /clone=IMAGE:754787 /clone_end=5'	1	CTTAAGTCTGACGGACCTGTCTCTGC CAGGCCAGTGCCAGGGAAGGTGT
3734	Table 3A	Hs.50984	X16354	37197	mRNA for transmembrane carcinoembryonic antigen BGPα (formerly TM1-CEA) /cds=(72,1652)	1	TTTCTAACCTGACACGGACTGTGCA TACITTCCTCATCCATGCTGTGC
3735	Table 3A	Hs.154672	X16396	35070	methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), nuclear gene encoding mitochondrial protein, mRNA /cds=(76,1110)	1	CAGCAGCTGCCTGCTTTTCTGTGATG TATGTATCCTGTTGACTTTTCCAG
3736	Table 3A	Hs.14601	X16663	32054	hematopoietic cell-specific Lyn substrate 1 (HCLS1), mRNA /cds=(42,1502)	1	TCCCTGAAGAAATATCTGTGAACCTT CTTTCTGTTCACTCCTAAAATTCG
3737	Table 3A	Hs.176663	X16863	31321	leukocyte IgG receptor (Fc-gamma-R) mRNA, complete cds /cds=(17,718)	1	ATGGGAGTAATAAGAGCAGTGGCAG CAGCATCTCTGAACATTTCTCTGGA
3738	Table 3A	Hs.271986	X17033	33906	Integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor) (ITGA2), mRNA /cds=(42,3587)	1	ACCCATTCTACTTTTTCACCTTATT TTCTCTGTTCTGAGCCCCACCA
3739	Table 3A	Hs.1908	X17042	32432	proteoglycan 1, secretory granule (PRG1), mRNA /cds=(24,500)	1	TGTGTTTGACAGCTAGTGGATGTGT TTGTCTACAAGTATGATTGCTGTT
3740	Table 3A	Hs.342863	X17094	31477	tg48f06.x1 cDNA, 3' end /clone=IMAGE:2112035 /clone_end=3'	1	GGCCACGATTTGCTGGTCTATTAA TGGACATGAGATAATGTTAGAGGT
3741	Table 3A	Hs.198951	X51345	34014	jun B proto-oncogene (JUNB), mRNA /cds=(253,1296)	1	TGAATATAATATATTTGTGTATTTAAC AGGGAGGGGGAAGAGGGGGCGATC
3742	Table 3A	Hs.3268	X51757	35221	heat shock 70kD protein 6 (HSP70B) (HSPA6), mRNA /cds=(0,1931)	1	TGGCACTTTTAACATTGCTTTACCAT ATTTTGTGTACTTTGTTACTTGC
3743	Table 3A	Hs.76053	X52104	35219	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 5 (RNA helicase, 68kD) (DDX5), mRNA /cds=(170,2014)	1	AGTAAATGTACAGTGATTTGAAATAC AATAATGAAGCAATGCATGCGCT
3744	Table 3A	Hs.323098	X52142	30292	cDNA: FLJ23458 fis, clone HSI07327 /cds=UNKNOWN	1	CTTAATGTGACCTAGCAATAGGCATA GCTACGTGGCACTATTTCTGGCC
3745	literature	Hs.99987	X52221	31215	ERCC2 gene, exons 1 & 2 (partial) /cds=UNKNOWN	1	AGGAGCACCTCACAGATGCCAACCT CAACCTGACCGTGGACGAGGGGTGTC
3746	Table 3A	Hs.278544	X52882	311380	acetyl-Coenzyme A acetyltransferase 2 (acetoacetyl Coenzyme A thiolase) (ACAT2), mRNA /cds=(37,1230)	1	CCACGACTTCTGCCCATTTCTCCACG TGTGTGAACAGGGTCAAGAAT
3747	Table 3A	Hs.85266	X53587	33950	integrin, beta 4 (ITGB4), mRNA /cds=(126,5384)	1	GGCCCAAACCTATTTGTAACCAAAGA GCTGGGAGCAGCACAAAGGACCCAG
3748	Table 3A	Hs.117950	X53793	28383	multifunctional polypeptide similar to SAICAR synthetase and AIR carboxylase (ADE2H1), mRNA /cds=(24,1301)	1	GCGAGCAAGCATTTTGAACACATGGA TTTCTTGAAGCAGGCTGACAAGA
3749	Table 3A	NA	X53795	35832	R2 mRNA for an inducible membrane protein	1	TCGGATGGGCTGTTAGATGTTATAT AATCCACAAAAGTTTCATTGAGCT
3750	Table 3A	Hs.105938	X53961	34415	lactotransferrin (LTF), mRNA /cds=(294,2429)	1	GGATTGCCCATCCATCTGCTTACAAT TCCCTGCTGTCGTCTTAGCAAGAA
3751	Table 3A	Hs.55921	X54326	31957	glutamyl-prolyl-tRNA synthetase (EPRS), mRNA /cds=(58,4380)	1	AAAATGAAGTCACACAGGACAATTAT TCTTATGCCCTAAGTTAACAGTGGA
3752	Table 3A	Hs.789	X54489	34625	GRO1 oncogene (melanoma growth stimulating activity, alpha) (GRO1), mRNA /cds=(79,402)	1	GCCTTGTTAATGGTAGTTTACAGT GTTTCTGGCTTAGAACAAAGGGGC
3753	Table 3A	Hs.74085	X54870	35062	DNA segment on chromosome 12 (unique) 2489 expressed sequence (D12S2489E), mRNA /cds=(338,988)	1	AGTGCCTTCCTGCCTGTGGGGGTC ATGCTGCCACTTTTAATGGGTCTCTC
3754	Table 3A	Hs.83758	X54942	29978	CDC28 protein kinase 2 (CKS2), mRNA /cds=(95,334)	1	TTCCAGTCAGTTTCTCTTAAGTGCC TGTTTGAGTTTACTGAAACAGTT
3755	Table 3A	Hs.283330	X55733	8924082	hypothetical protein PRO1843 (PRO1843), mRNA /cds=(964,1254)	1	TCCAATGCAGTCCCATTTTATTTATGGC CTATAGTCTCACTCCCACTACCC
3756	Table 3A	Hs.312670	X55740	23896	xn42c03.x1 cDNA, 3' end /clone=IMAGE:2696356 /clone_end=3'	1	TGGTATAAGAAATGACTTTGAACCCAC TTTGCAATTGTAGATTCCCAACAA
3757	Table 3A	Hs.85112	X57025	33007	IGF-I mRNA for insulin-like growth factor I /cds=(168,627)	1	CCCCTGCTACTTTGAAACCAGAAAAAT AATGACTGGCCATTGCTTACATCT

Table 8

3758	Table 3A	Hs.279920	X57346	23113	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide (YWHA8), mRNA /cds=(372,1112)	1	TGATCTGTCCAGTGTCACTCTGTACC CTCAACATATATCCCTTGTGCGAT
3759	Table 3A	Hs.74405	X57347	32463	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide (YWHAQ), mRNA /cds=(100,837)	1	AAAAGCCTTGTGAAAAATGTTATGCC TATGTAACAGCAGAGTAACATAAA
3760	Table 3A	Hs.289110	X57809	33714	rearranged immunoglobulin lambda light chain mRNA /cds=(9,710)	1	CCACCACGGGAGACTAGAGCTGCAG GATCCCGGGGGAGGGGTCTCTCCTC
3761	Table 3A	Hs.289110	X57812	33723	rearranged immunoglobulin lambda light chain mRNA /cds=(9,710)	1	CAGTGGAAGTCCCACAGAAGCTACA GCTGCCAGGTACGCATGAAGGGAG
3762	Table 3A	Hs.302063	X58529	33480	rearranged immunoglobulin mRNA for mu heavy chain enhancer and constant region /cds=UNKNOWN	1	CCCACACTGCTTTGCTGTGTATACGC TTGTTGCCCTGAAATAAATATGCA
3763	Table 3A	Hs.302063	X58529	33480	rearranged immunoglobulin mRNA for mu heavy chain enhancer and constant region /cds=UNKNOWN	1	CCCACACTGCTTTGCTGTGTATACGC TTGTTGCCCTGAAATAAATATGCA
3764	Table 3A	Hs.155101	X59068	28937	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle	1	ACAAATTTCTTGGCTGGATTTGAAGC TTAAACTCCTGTGGATTACACATCA
3765	Table 3A	Hs.83532	X59405	34508	H.sapiens, gene for Membrane cofactor protein /cds=UNKNOWN	1	AGAGACCAGTTTTCTCTGGAAGTTTG TTTAAATGACAGAAGCGTATATGA
3766	literature	Hs.861	X60188	31220	ERK1 mRNA for protein serine/threonine kinase /cds=(72,1211)	1	CGCCCCCTGCCACCTCCCTGACCCGT CTAATATATAAATATAGAGATGTGT
3767	Table 3A	Hs.81634	X60221	509290	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit b, isoform 1 (ATP5F1), mRNA /cds=(32,802)	1	GCCAGTCAGATGTTTCTCATCCTTCT TGCTCTGCCCTTGAGTTGTTCCT
3768	Table 3A	Hs.44928	X60708	35335	dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2) (DPP4), mRNA /cds=(75,2375)	1	AAATACTGATGTTCTAGTGAAAGAG GCAGCTTGAAACTGAGATGTGAAC
3769	Table 3A	Hs.81226	X60992	29817	CD6 mRNA for T cell glycoprotein CD6 /cds=(120,1526)	1	AGAAGCTGCACTAGGCCCGAGTCC CCATGTGTCTCCTTGAATTGATGAG
3770	Table 3A	Hs.77054	X81123	29508	B-cell translocation gene 1, anti-proliferative (BTG1), mRNA /cds=(308,823)	1	AAGTCTTTTCCACAAACCACCATCTAT TTTGTGAACCTTGTATGTCATCT
3771	Table 3A	Hs.76913	X61970	296739	proteasome (prosome, macropain) subunit, alpha type, 5 (PSMA5), mRNA /cds=(21,746)	1	AAATTTTATTTCCAGCTCCTGTTCTT GGAAAATCTCCATTGTATGTGCA
3772	Table 3A	Hs.276770	X62468	29645	CDW52 antigen (CAMPATH-1 antigen) (CDW52), mRNA /cds=(24,209)	1	CCTGAAACAGCTGCCACCATCACTCG CAAGAGAATCCCTCCATCTTTGG
3773	Table 3A	Hs.80684	X62534	32332	high-mobility group (nonhistone chromosomal) protein 2 (HMG2), mRNA /cds=(190,819)	1	TTCTGTGTGTATGGTAGCAGACAAA CTGTAGGAATTAGTATCAATAGT
3774	Table 3A	Hs.172690	X62535	30822	diacylglycerol kinase, alpha (80kD) (DGKA), mRNA /cds=(103,2310)	1	ACACACATAGACACACCCCAAAACAC ATACATTGAAAGTGCTCATCTGA
3775	Table 3A	Hs.77522	X62744	36062	major histocompatibility complex, class II, DM alpha (HLA-DMA), mRNA /cds=(45,830)	1	GATCTCCTCTTAGGGTAGAAGAAGTC TCTGGGACATCCCTGGGGTGTGTG
3776	Table 3A	Hs.296014	X63563	36121	polymerase (RNA) II (DNA directed) polypeptide B (140kD) (POLR2B), mRNA /cds=(43,3567)	1	GGCTGCCGCAATAAAACCCAGATTTC TTTGGTGCGAATGCCTTACGCATG
3777	Table 3A	Hs.82359	X63717	28741	tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), mRNA /cds=(220,1227)	1	TCATCATCTGGATTAGGAATTGCTC TTGTCATACCCCAAGTTTCTAAG
3778	db mining	Hs.2490	X65019	33792	caspase 1, apoptosis-related cysteine protease (interleukin 1, beta, convertase) (CASP1), mRNA /cds=(0,1151)	1	TGCCCACCACTGAAAGAGTGACTTTG ACAAGATGTTTCTACCTCTTCCA
3779	Table 3A	Hs.75248	X68060	37230	topoisomerase (DNA) II beta (180kD) (TOP2B), mRNA /cds=(0,4865)	1	TTTGATCAGGATTGAGATGTGGACAT CTTCCCCTCAGACTTCCCTACTGA
3780	Table 3A	Hs.652	X68550	37269	tumor necrosis factor (ligand) superfamily, member 5 (hyper-IgM syndrome) (TNFSF5), mRNA /cds=(39,824)	1	TCTACCTGCAGTCTCCATTGTTTCCA GAGTGAACCTGTAATTATCTTGT
3781	Table 3A	Hs.116774	X68742	33949	mRNA for integrin, alpha subunit /cds=UNKNOWN	1	CGGATTGTTGCTGTTAATGCTGCTCA TTTTAGCACTGTGGAAGATTGGAT
3782	Table 3A	Hs.77502	X68838	36326	Homo sapiens, methionine adenosyltransferase II, alpha, clone MGC:4537 IMAGE:3010820, mRNA, complete cds /cds=(116,1303)	1	TAGAGATTGTGAAGAAGAATTTCGAT CTCCGCCCTGGGGTCATTGTGACGG
3783	Table 3A	Hs.192760	X69392	36114	kinesin family member 5A (KIF5A), mRNA /cds=(148,3246)	1	CTCCTGTTGGGTAAGGGTGTGAGTG TGACTTGTGCTGAAACCTGGTTC

Table 8

3784	Table 3A	Hs.83715	X69804	1015489	Sjogren syndrome antigen B (autoantigen La) (SSB), mRNA /cds=(72,1298)	1	AAAAGGAAAACCGAATTAGGTCCACT TCAATGTCCACCTGTGAGAAAGGA
3785	Table 3A	Hs.309952	X69819	32627	mRNA; cDNA DKFZp434E0516 (from clone DKFZp434E0516) /cds=UNKNOWN	1	GGAAGAACCGTCCAGAGCTGAGTGA CGCTGGGATCCGGGATCAAAGTTGG
3786	Table 3A	Hs.170009	X70340	37089	transforming growth factor, alpha (TGFA), mRNA /cds=(31,513)	1	TGTGCATTGTTATTGAGTTGTACTGTA CCTTATTTGGAAGGATGAAGGAA
3787	Table 3A	Hs.180610	X70944	38457	splicing factor proline/glutamine rich (polypyrimidine tract-binding protein-associated) (SFPQ), mRNA /cds=(85,2208)	1	CCCATTTCTGTGTTTTAAAGACCAAC AAATCTCAAGCCCTATAAATGGC
3788	Table 3A	Hs.106876	X71490	313011	Homo sapiens, clone MGC:15351 IMAGE:4126712, mRNA, complete cds /cds=(87,1142)	1	AGAAGCATGTCACCTTTCATGTTCCCTC CCTAACTCCCTGACCTGAGAACCC
3789	Table 3A	Hs.251526	NM_006273	13435401	gene for monocyte chemotactic protein-3 (MCP-3) /cds=(0,329)	1	GGATGCTCCTCCCTTCTCTACCTCAT GGGGGTATTGTATAAGTCCTTGCA
3790	Table 3A	Hs.156110	X72475	441418	cDNA: FLJ21321 fis, clone COL02335, highly similar to HSA010442 mRNA for immunoglobulin kappa light chain /cds=UNKNOWN	1	GCACCATCTGTCTTCATCTTCCGCCA TCTGATGAGCAGTTGAAATCTGGA
3791	Table 3A	Hs.156110	X72475	441418	cDNA: FLJ21321 fis, clone COL02335, highly similar to HSA010442 mRNA for immunoglobulin kappa light chain /cds=UNKNOWN	1	GCACCATCTGTCTTCATCTTCCGCCA TCTGATGAGCAGTTGAAATCTGGA
3792	Table 3A	Hs.79081	X74008	402777	protein phosphatase 1, catalytic subunit, gamma isoform (PPP1CC), mRNA /cds=(154,1125)	1	AAAAGAAATCTGTTTCAACAGATGAC CGTGACAAATACCGTGTGGTGAAA
3793	Table 3A	Hs.331328	X74262	397375	intermediate filament protein syncoilin (SYNCOILIN), mRNA /cds=(168,623)	1	GGCCTGTTACTCTCCATGACTAACTG TGTAAGTGCTTAAATGGAATAAA
3794	Table 3A	Hs.1708	X74801	671526	chaperonin containing TCP1, subunit 3 (gamma) (CCT3), mRNA /cds=(0,1634)	1	GGCAGCCCCAGTCCCTTCTGTGCC CAGCTCAGTTTCCAAAGACACTG
3795	Table 3A	Hs.44313	X75042	402648	v-rel avian reticuloendotheliosis viral oncogene homolog (REL), mRNA /cds=(177,2036)	1	TCTTGATACCACCTATATAGATGCAG CATTTTGTATTTGTCTAACTGGGG
3796	Table 3A	Hs.73965	X75755	455418	splicing factor, arginine/serine-rich 2 (SFRS2), mRNA /cds=(155,820)	1	CGGGCCTTGCATATAATAACGGAGC ATACAGTGAGCACATCTAGCTGAT
3797	Table 3A	Hs.74637	X75861	456258	testis enhanced gene transcript (TEGT), mRNA /cds=(40,753)	1	CTGTGCTTTTGTCTGGGATAATGGA GTTTTCTTTTGAACAGTGCCAA
3798	Table 3A	Hs.79362	X75918	415822	p130 mRNA for 130K protein /cds=(69,3488)	1	TTGAGGGGATTATATGAAAACCTAT GACCTCTTCCCTTAGGAGGGAGTT
3799	Table 3A	Hs.79362	X76061	416030	p130 mRNA for 130K protein /cds=(69,3488)	1	TGTTAAACCCCTATAGCCACCTTTT GGGAATGTTTTAAATCTCCAGTT
3800	Table 3A	Hs.83347	X76302	431952	angio-associated, migratory cell protein (AAMP), mRNA /cds=(0,1358)	1	TGGCAGGCGTCAACCCCATTTTATTT GTCCTATTCTGTGGAAGCAGTA
3801	Table 3A	Hs.85226	X76488	434305	lipase A, lysosomal acid, cholesterol esterase (Wolman disease) (LIPA), mRNA /cds=(40,1239)	1	AATACACCTGCTTCAGCTCCCTATGT TGGGAAGTCCATATTGTCTGCTT
3802	Table 3A	Hs.334648	X76770	556782	PAP mRNA /cds=UNKNOWN	1	CAGGAAATGCAGCAACTTCAGGAAAT GCAGCAACAAAAATACCTACTCTCT
3803	Table 3A	Hs.76136	X77584	453883	thioredoxin (TXN), mRNA /cds=(63,380)	1	AAACCCAGTTGCCATCTGCGTGACAA TAAACATTATATGCTAACACTTTT
3804	Table 3A	Hs.85155	X79067	483524	ERF-1 mRNA 3' end /cds=UNKNOWN	1	TGCTGATTACTTCTGAAAGACTGT GCAGTGTGTTAGTTGTTGGCTGAA
3805	Table 3A	Hs.153221	X79201	531105	synovial sarcoma translocation, chromosome 18 (SS18), mRNA /cds=(3,1178)	1	GTGTATGAGAGAGAGAGTGTGTGTTT GTGTGTTTCAAGGTGAGAACAGGT
3806	Table 3A	Hs.179943	X79234	495125	ribosomal protein L11 (RPL11), mRNA /cds=(0,536)	1	TGGTTCAGCAGAAAGTATGATGGGAT CATCCTTCTGGCAAAATAAATTC
3807	Table 3A	Hs.74576	X79353	695584	GDP dissociation inhibitor 1 (GDI1), mRNA /cds=(80,1423)	1	TGTCCTCTCCCCACCCCTCTAGTGTA TTTCACAGAAAACAAACCTCCCA
3808	Table 3A	Hs.7957	X79448	2326523	adenosine deaminase, RNA-specific (ADAR), transcript variant ADAR-a, mRNA /cds=(187,3867)	1	AGTCCAGTTTTATGATTCTGCTTTTAT GTGTCCCTTGATAACAGTGACTT
3809	Table 3A	Hs.249495	X79536	496897	heterogeneous nuclear ribonucleoprotein A1 (HNRPA1), transcript variant 2, mRNA /cds=(104,1222)	1	AAACTCATCTGTCCAAGTTCGTGGCA GAAAGGAACGTCCTTGTAAGACC
3810	Table 3A	Hs.151134	X80695	619490	oxidase (cytochrome c) assembly 1-like (OXA1L), mRNA /cds=(0,1487)	1	AGAGCACTGGGTAGCCAAGTGATCTT CCCATTACAGAGTTAGTAAACCT
3811	Table 3A	Hs.77897	X81789	551449	splicing factor 3a, subunit 3, 60kD (SF3A3), mRNA /cds=(8,1513)	1	CCCCAGAGACCCGATTCGCTCTCA ACACTCAGACCTTCAACTGTTTTT
3812	Table 3A	Hs.318501	X82200	899299	stimulated trans-acting factor (50 kDa) (STAF50), mRNA /cds=(122,1450)	1	CCAGTGACACCCCATATTCATCACAA AATTAAAGCAAGATGCTCATAGTA
3813	Table 3A	Hs.153961	X82206	563882	ARP1 (actin-related protein 1, yeast) homolog A (contractin alpha) (ACTR1A), mRNA /cds=(57,1187)	1	TGACACCAAGACCCACCCCAATCCAG ACITCACACAGTATTCTCCCCAC



Table 8

3814	Table 3A	Hs.289103	X83300	603028	SMA4 mRNA /cds=(66,488)	1	GACTGCAAGTCACTCTTAGGGGCTGT ACTTCCTTAGTACTGGTAGCATT
3815	Table 3A	Hs.160483	X85116	1161561	epb72 gene exon 1 /cds=(61,927)	1	AACTGAGCATCACGAACCTGTTTGG CAGACTGAGGTACCGATGGAGGGG
3816	Table 3A	Hs.24143	X86019	2760482	Wiskott-Aldrich syndrome protein interacting protein (WASPIP), mRNA /cds=(108,1619)	1	TCCTCCATTGAAGAAGATGTCAACA AGAAAGGAAAAATAGACAACTGG
3817	Table 3A	Hs.75410	X87949	1143491	mRNA for BiP protein /cds=(222,2183)	1	AAGTCTCGAATGTAATTGGAATCTTC ACCTCAGAGTGGAGTTGAACTGCT
3818	Table 3A	Hs.2007	X89102	887455	tumor necrosis factor (ligand) superfamily, member 6 (TNFSF6), mRNA /cds=(157,1002)	1	CCATCGGTGAAACTAACGATAAGCA AGAGAGATGTTTTGGGACTCATT
3819	Table 3A	Hs.180433	X89602	1150420	rTS beta protein (HSRTSBETA), mRNA /cds=(17,1267)	1	ACAAAAATAGCTATATCAAGGGCTGG CACCTAGACATTAACTGTACTTT
3820	Table 3A	Hs.13046	X91247	1237037	thioredoxin reductase 1 (TXNRD1), mRNA /cds=(439,1932)	1	GTCCACCACTCTCTGAAATTAGAACAA GTAGCGGTATGAGATAATCAGGC
3821	Table 3A	Hs.335328	X91348	1418768	predicted non coding cDNA (DGCR5) /cds=UNKNOWN	1	GAAATGTAGCTGGAGTCATCATTTAG CAGAGCAGGTGTCCCTGGGTTGG
3822	Table 3A	Hs.2726	X92518	1225979	mRNA for HMGL-C protein /cds=(848,1177)	1	GCCTCTGTGATCCCATGTGTTTTGA TTCCTGCTCTTTGTTACAGTTCCA
3823	Table 3A	Hs.78335	X94232	1292867	microtubule-associated protein, RP/EB family, member 2 (MAPRE2), mRNA /cds=(112,1095)	1	AAAACAAGAAACAAATGTGCCACCC CACTTTCCGCTTAAGTGAAGAGCT
3824	Table 3A	Hs.75841	X94910	3413292	chromosome 12 open reading frame 8 (C12orf8), mRNA /cds=(11,798)	1	GTAAAAAGGCTGTCTGTGATTTTCCA GGGTTTGGTGGGGGTAGGGAGGGG
3825	Table 3A	Hs.3416	X97324	1806039	adipose differentiation-related protein (ADFP), mRNA /cds=(0,1313)	1	CTGACTGAGTCTCAGAAATGCTCAGGA CCAAGGTGCAGAGATGGACAAGAG
3826	Table 3A	Hs.100555	X98743	1498228	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 18 (Myc-regulated) (DDX18), mRNA /cds=(71,2083)	1	AGCTTCTTGGGTTCTAATTCCTGGT GTTAATAATTCTCTCCACGATCA
3827	Table 3A	Hs.139262	X99699	1869900	XIAP associated factor-1 (HSXIAPAF1), mRNA /cds=(0,953)	1	TACTTGCTGTGGTGGTCTTGTAAG GTGATGGGTTTTATTCGTTGGGCT
3828	Table 3A	Hs.170121	Y00062	34275	protein tyrosine phosphatase, receptor type, C (PTPRC), mRNA /cds=(86,4000)	1	ATTTCCAGTGAGCTTATCATGCTGTC TTTACATGGGGTTTTCAATTTTGC
3829	Table 3A	Hs.51077	Y00093	35175	integrin, alpha X (antigen CD11C (p150), alpha polypeptide) (ITGAX), mRNA /cds=(58,3549)	1	TGCAGCTCACCAGCCCCAGGGGCAG AAGAGACCAACCACTTCCTATTTT
3830	Table 3A	Hs.169476	Y00282	36048	Homo sapiens, glyceraldehyde-3- phosphate dehydrogenase, clone MGC:10926 IMAGE:3628129, mRNA, complete cds /cds=(2306,3313)	1	ACTTACCAGATGTTGCTTTTGAAAA GTTGAAATGTGTAATTGTTTGA
3831	Table 3A	Hs.76473	Y00285	33054	insulin-like growth factor 2 receptor (IGF2R), mRNA /cds=(147,7622)	1	TGTATATAGACTCTGGTGTCTATTG CTGAGAAGCAAACCGCCCTGCAGC
3832	Table 3A	Hs.172182	Y00345	35569	poly(A)-binding protein, cytoplasmic 1 (PABPC1), mRNA /cds=(502,2403)	1	ATGTCAGTTCTGTTTTAAGTAACAGAA TTGATAACTGAGCAAGGAAACGT
3833	Table 3A	Hs.180414	Y00371	32468	hsc70 gene for 71 kd.heat shock cognate protein	1	TTGGAGCTAAGCTGCCACCTGGTTAA TTAAGGTCCCAACAGTAGGTTGTG
3834	Table 3A	Hs.233950	Y00503	34038	serine protease inhibitor, Kunitz type 1 (SPINT1), mRNA /cds=(175,1716)	1	CTTTGGAGGGTGTCTCTGGGTAGAG GGATGGGAAGGAAGGACCCCTTAC
3835	Table 3A	Hs.75716	Y00630	35267	serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 2 (SERPINB2), mRNA /cds=(72,1319)	1	TGCCTTTAATTGTTCTCATTAATGAAGA ATAAGTAGGTACCCTCCATGCC
3836	Table 3A	Hs.79368	Y07909	1542882	epithelial membrane protein 1 (EMP1), mRNA /cds=(218,691)	1	ATTTGCATTACTCTGGTGGATTGTCT AGTACTGTATTGGGCTCTTCTCGT
3837	Table 3A	Hs.113503	Y08890	2253155	Homo sapiens mRNA for Ran_GTP binding protein 5 (RanBP5(Importin5) gene) /cds=(236,3529)	1	TTTGGCTTAGTGTTTTCATTGCAAAAT ATAATTGCTGTAGAGCCACACAC
3838	Table 3A	Hs.227817	Y09397	1694788	BCL2-related protein A1 (BCL2A1), mRNA /cds=(183,710)	1	TTGATGATGTAACCTGACCTTCCAGA GTTATGGAATTTTGTCCCATGT
3839	Table 3A	Hs.43913	Y09631	3925684	PIBF1 gene product (PIBF1), mRNA /cds=(0,2276)	1	AACAAAAGATGAAGACCTAGTGT GGATGGGAAGCACCTGTAGACCAT
3840	Table 3A	Hs.44499	Y09703	4581462	pinin, desmosome associated protein (PNN), mRNA /cds=(30,2261)	1	ACATGTGCAAAATAAATGTGGCTAGA CTTGTGTGACTGCTTAAGACTAAA
3841	Table 3A	Hs.47007	Y10256	1841433	mitogen-activated protein kinase kinase kinase 14 (MAP3K14), mRNA /cds=(232,3075)	1	TCGGGTTGTAGAGACCTCTTTGTAA GCAATAAAGTTTGGGGTGATGACA
3842	Table 3A	Hs.7879	Y10313	2708510	interferon-related developmental regulator 1 (IFRD1), mRNA /cds=(219,1580)	1	CGAACCAAAGCTAGAAGCAAATGTCG AGATAAGAGAGCAGATGTTGGAGA
3843	Table 3A	Hs.51957	Y11251	1848180	splicing factor, arginine/serine-rich 2, interacting protein (SFRS2IP), mRNA /cds=(1210,4656)	1	CACCTTTCACCTATTGTATGACCAAA AAAGGTTATGCTGCTGTTTACGC
3844	Table 3A	Hs.129953	Y11289	2808510	Ewing sarcoma breakpoint region 1 (EWSR1), transcript variant EWS, mRNA /cds=(43,2013)	1	TGCTAGGTGATGGAGTAGAAATGGAT TCCCTCTGGGAATGGTTCTTGGT
3845	Table 3A	Hs.106019	Y13247	2117158	protein phosphatase 1, regulatory subunit 10 (PPP1R10), mRNA /cds=(539,3361)	1	TATGAAAACAGTGGATTGGTTGGGT TTGTGCAAGGCTCTGGGTTAGAGC



Table 8

3846	Table 3A	Hs.16530	Y13710	2326515	small inducible cytokine subfamily A (Cys-Cys), member 18, pulmonary and activation-regulated (SCYA18), mRNA /cds=(70,339)	1	TGCATGGATCAATCAGTGTGATTAGC TTTCTCAGCAGACATTGTGCCATA
3847	Table 3A	Hs.17883	Y13936	2315201	protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform (PPM1G), mRNA /cds=(24,1664)	1	CTCATCACCGGTTCTGTGCCGTGTGCT CTGTTGTGTTGGAGGGGAAGGACTG
3848	Table 3A	Hs.195175	Y14039	2653415	mRNA for CASH alpha protein /cds=(481,1923)	1	GCAGCACACTCTGAGAAAGAACTTA TCCTCTCCTACACATAAGAAACCA
3849	Table 3A	Hs.227913	Y15906	5327056	API5-like 1 (API5L1), mRNA /cds=(132,1648)	1	TGCAAGACACCTGTTTATCATCTTGT TAAATGTAAATGTCCCTTATGC
3850	Table 3A	Hs.85951	Y16414	2924334	exportin, tRNA (nuclear export receptor for tRNAs) (XPOT), mRNA /cds=(0,2888)	1	TCAACGCCAATATGATCTACAAAA GAGAATGTTTATAGGCTCCAGTGT
3851	Table 3A	Hs.271387	Y16645	2916795	mRNA for monocyte chemotactic protein-2 /cds=(472,771)	1	TGGATCATCAAGGTGAAACACTTTGG TATTCTTTGGCAATCAGTGCCTCT
3852	Table 3A	Hs.337737	Y17829	4128042	Homer, neuronal immediate early gene, 1B (SYN47), mRNA /cds=(75,1139)	1	GATACACTGTCTCTCTCATAGGACT GTTTAGGCTCTGCATCAAGATTGC
3853	Table 3A	Hs.247792	Z00013	33149	germline gene for the leader peptide and variable region of a kappa immunoglobulin (subgroup V kappa I)	1	AAGGCAGGGATCATGACACCTGAGG AGTCTAGTTTATGGCTTCAGTTGGA
3854	Table 3A	Hs.173936	Z17227	393378	mRNA for transmembrane receptor protein /cds=(43,1020)	1	ATGGATGGACTGATCTGAAATCGAC CTCAACTCAAGGGTGGTCAGCTCA
3855	Table 3A	Hs.211577	Z22551	296163	kinesin 1 (kinesin receptor) (KTN1), mRNA /cds=(83,3985)	1	TGCTAATGTAATCGGTTTTTGTAAATG GCGTCACAAATAAAGGATGCTTA
3856	Table 3A	Hs.82401	Z22576	397938	CD69 antigen (p60, early T-cell activation antigen) (CD69), mRNA /cds=(81,680)	1	TGCAAGACATAGAAATGTTGGAAA ATGTGCAATATGTGATGTGGCAAA
3857	Table 3A	Hs.74076	Z22970	312145	mRNA for M130 antigen cytoplasmic variant 2 /cds=(101,3571)	1	AAGTTTGTGAATGTGACTACTTAGTG GTGTATATGAGACTTTCAAGGGAA
3858	Table 3A	Hs.146381	Z23064	3256008	RNA binding motif protein, X chromosome (RBMX), mRNA /cds=(11,1186)	1	CCATTTTGCCCTTCTGACATTTCCTTG GGAATCTGCAAGAACCTCCCTT
3859	Table 3A	Hs.225160	Z23090	433597	hypothetical protein FLJ13102 (FLJ13102), mRNA /cds=(80,1084)	1	CTGTGCCCTCCCCGCCACCTGTGTG TCTTTTGTATACATTATCTTCTGT
3860	Table 3A	Hs.4934	Z24724	505034	polyA site DNA /cds=UNKNOWN	1	TGTATAJTATGGTGGGAGGTGGTTG GGAACCTTTAACAATAATGGGTGT
3861	Table 3A	Hs.2236	Z29067	479172	nek3 mRNA for protein kinase /cds=(0,1379)	1	TCCTTTGGAACAGAAATGAAGCAGAG GAAACTCTTAATACTTAAATCGT
3862	Table 3A	Hs.109918	Z35227	609016	ras homolog gene family, member H (ARH), mRNA /cds=(579,1154)	1	TTGCCAGGCCAGTGTAGAAAATCCCT TGCGGAACGTGTGATGAATATTCCA
3863	Table 3A	Hs.198427	Z46376	587201	hexokinase 2 (HK2), mRNA /cds=(1490,4243)	1	CTAGTCATAGAAATACCTCATTCGCC TGTGGGAAGAGAAGGGAAGCCTCT
3864	Table 3A	Hs.171626	Z47087	860989	transcription elongation factor B (SIII), polypeptide 1-like (TCEB1L), mRNA /cds=(101,582)	1	ATGTGGTAAACCCAGAAAGCATCCA TCATGAATGCAAGATACTTTCAAT
3865	Table 3A	Hs.180877	Z48950	761715	clone PP781 unknown mRNA /cds=(113,523)	1	TGCTTGATTAAGATGCCATAATAGTG CTGTATTGTCAGTGTGGGCTAAGA
3866	Table 3A	Hs.83465	Z49995	895841	homeo box D1 (HOXD1), mRNA /cds=(223,1209)	1	TCTTCTGTTTCATCTCGCGTCTCTGG AACCAGATTGTTGACTTGCCTGTCA
3867	Table 3A	Hs.78683	Z72499	1545951	ubiquitin specific protease 7 (herpes virus-associated) (USP7), mRNA /cds=(199,3507)	1	CCTTCAGTTATACTTTCAATGACCTTT TGTGCATCTGTTAAGGCAAAAACA
3868		Hs.51077	M81695	487829	integrin, alpha X (antigen CD11C (p150), alpha polypeptide) (ITGAX), mRNA /cds=(58,3549)	1	ATGCATCTACCGCTCCTTGGGAAATA ATCTGAAAGGTCTAAAAATAAAAA
3869	Table 3A	Hs.113029	BF025727	10733439	ribosomal protein S25 (RPS25), mRNA /cds=(63,440)	1	CGCAAGAAGCAGGAAGAGGAAGAG AAGAAAGCAACACGGGGAAAGATA
3870	Table 3A	Hs.150675	BF028489	10736201	polymerase (RNA) II (DNA directed) polypeptide K (7.0kD) (POLR2K), mRNA /cds=(66,242)	1	GTAGTGTGTTGCATCCCTCTCACCT CTGATCTTCGTAGCTCGTGCATG
3871	Table 3A	Hs.74170	BF028898	10736608	602708243F1 cDNA, 5' end /clone=IMAGE:4844914 /clone_end=5'	1	GAGGGAAACCCGGTAATAGGCTGGG AGTAATCCACACAGCTGTCAACATT
3872	Table 3A	Hs.199061	BF029654	10737366	p300/CBP-associated factor (PCAF), mRNA /cds=(458,2956)	1	CACACACTGCTACGTGACGTACCACT ACTGCCAGCGCAGCACTAGCTCAC
3873	Table 3A	Hs.13268	BF029798	10737508	602634117F1 cDNA, 5' end /clone=IMAGE:4779149 /clone_end=5'	1	GGATCGTGACACACCGGGTTACACA CTTCCACACCGTAATTCATCAAT
3874	Table 3A	Hs.149595	BF029894	10737606	601557056F1 cDNA, 5' end /clone=IMAGE:3827172 /clone_end=5'	1	GGTTGCACCAAGGCTGCCTAGGAGA AGTGCCTGACTGGACTACCCCGATC
3875	Table 3A	Hs.118303	BF030930	10738642	601558648F1 cDNA, 5' end /clone=IMAGE:3828706 /clone_end=5'	1	TCTGCCATCTGTCTATTTCCCAATTTT CCTTCTGACTGTCTCTTCTCTCT
3876	Table 3A	Hs.337988	BF033741	10741453	Homo sapiens, clone MGC:17431 IMAGE:2984883, mRNA, complete cds /cds=(1336,1494)	1	CTGTGATATTTTGGTCATGGGCTGGT CTGGTCGGTTTCCCATTTGTCTGG

Table 8

3877	Table 3A	Hs.144559	BF036686	10744746	601459771F1 cDNA, 5' end /clone=IMAGE:3863248 /clone_end=5'	1	TACGACATTTCGGAATTCGCTAAAA ACAAGGGGGAGTTACGCGGGCCAT
3878	Table 3A	Hs.39457	BF103848	10886287	602537152F1 cDNA, 5' end /clone=IMAGE:4656037 /clone_end=5'	1	GCGCAGGTTACCGGAACCCAAGGTC CTTTGAAATTGACAACTCTCTTTGG
3879	Table 3A	Hs.279009	BF105172	10887698	matrix Gla protein (MGP), mRNA /cds=(46,357)	1	AGCTGTGGAAAGGGCAACCTGTGGT TTCTCTGTAAGGTTTAAATGGGG
3880	Table 3A	Hs.95388	BF107010	10889635	602619064F1 cDNA, 5' end /clone=IMAGE:4733030 /clone_end=5'	1	CACAAACACCCGCCGAGCAACCAC AGACACAGGACACGACACCACACAC
3881	Table 3A	Hs.171595	BF130300	10969340	HIV TAT specific factor 1 (HTATSF1), mRNA /cds=(57,2321)	1	AAAGGGTTACTTTTCAAAACAGTCTC CTTTCGACCGGGGTGAGGTGGCC
3882	Table 3A	Hs.129872	BF131060	10970089	sperm associated antigen 9 (SPAG9), mRNA /cds=(110,2410)	1	GGTGGACAGTATAGCGGTTAAGAT CCGTTGATGGCGAAGGTGAGAATG
3883	Table 3A	Hs.75428	BF131654	10970694	superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult)) (SOD1), mRNA /cds=(0,464)	1	GACAGAGCGAGTAGACGGGAGGCGG AGAAGGAAGAGGAGACGAGACGAGG
3884	Table 3A	Hs.9614	BF131656	10970696	nucleophosmin (nucleolar phosphoprotein B23, numatrin) (NPM1), mRNA /cds=(0,884)	1	CAAGACACAGAGGCAACGGAGAGAC ACGCAGACAGCAAGGCCACGGAAC
3885	Table 3A	NA	BF184881	11063302	ESTs	1	AGGGATAGGATAATTACAGAGGTACT GAGACTCCTGGCGTGGGTGACTCT
3886	Table 3A	Hs.160954	BF207290	11100876	602759615F1 cDNA, 5' end /clone=IMAGE:4895042 /clone_end=5'	1	CCCATCATGAAAAACGCCCTTAGGAG CCGAAGAAGAAAACCTCGGGAAAA
3887	Table 3A	Hs.76064	BF214146	11107732	ribosomal protein L27a (RPL27A), mRNA /cds=(22,468)	1	GACACAGCGAGAGTCCAGGAACAGG CAGACAAGCGAGAAAGAGGAGAAGC
3888	Table 3A	Hs.169248	BF214508	11108094	601845758F1 cDNA, 5' end /clone=IMAGE:4076510 /clone_end=5'	1	GTAGGAGGCGAGAAGGAAGAACAG GCACACCGAAGGAGCAAGACCAGAC
3889	Table 3A	Hs.75968	BF217687	11111273	thymosin, beta 4, X chromosome (TMSB4X), mRNA /cds=(77,211)	1	CAAGAAGCAGAAGCAGCAACCAGAG ACAGAGAGACAAACGCAGAACACA
3890	Table 3A	Hs.111611	BF219474	11113299	ribosomal protein L27 (RPL27), mRNA /cds=(17,427)	1	CAACAAGCAGACGAAACAACAACAAAT ATCAACGAGGCGCAGCAGCTCAAA
3891	Table 3A	Hs.112318	BF237710	11151628	cDNA FLJ14633 fis, clone NT2RP2000938 /cds=UNKNOWN	1	AACACACAAGAGAAACATAACCACTA AATCACTACAAACACACACAGAAT
3892	Table 3A	Hs.182937	BF242969	11156897	peptidylprolyl isomerase A (cyclophilin A) (PPIA), mRNA /cds=(44,541)	1	AAACGAATTCCTGCACTGAGAGTGTT CACAGCGCCACTTTCCTCTCTCTC
3893	Table 3A	Hs.171774	BF243010	11156938	hypothetical protein (HSPC016), mRNA /cds=(38,232)	1	CGAGAAGCAGAAGATGACAGCAGAG CGAAAGCAGAGAAGCAACAGACAAG
3894	Table 3A	Hs.296251	BF243724	11157654	programmed cell death 4 (neoplastic transformation inhibitor) (PDCD4), mRNA /cds=(84,1493)	1	TTGGATTATTAAAGTCCCTTTGGAA GTCTTCTACCATTACTGTAGACCA
3895	Table 3A	Hs.109697	BF244603	11158534	601862620F1 cDNA, 5' end /clone=IMAGE:4080412 /clone_end=5'	1	TCACATACCTATGCCGACTGAGTGG AACGAGCCGACTATCACACAGAGC
3896	Table 3A	Hs.294110	BF245076	11159008	601863910F1 cDNA, 5' end /clone=IMAGE:4082235 /clone_end=5'	1	CACATGCGCAATAAACCCGGCGAAG ACGCCACTCTGCGGCAAGGACACA
3897	Table 3A	Hs.182825	BF245224	11159156	ribosomal protein L35 (RPL35), mRNA /cds=(27,398)	1	CCGCAGACACGAAAGCACCAACCAC CGACCGCCACCAGAGGAACAACAG
3898	Table 3A	Hs.199248	BF245892	11159734	prostaglandin E receptor 4 (subtype EP4) (PTGER4), mRNA /cds=(388,1854)	1	GGGCACTTAAATGGTCACCTGTGTAA CAGTTTGGTGAACCTCCAGTGAT
3899	Table 3A	Hs.108124	BF303895	11250572	cDNA: FLJ23088 fis, clone LNG07026 /cds=UNKNOWN	1	ACAACACGAAACGAAACAAGCAAGA AAGAAACCGACACGAGCGCAACCA
3900	Table 3A	Hs.296251	BF303931	11250608	programmed cell death 4 (neoplastic transformation inhibitor) (PDCD4), mRNA /cds=(84,1493)	1	TTGGATTATTAAAGTCCCTTTGGAA GTCTTCTACCATTACTGTAGACCA
3901	Table 3A	NA	BF306204	11253289	cDNA clone IMAGE:4138980 5'	1	CAGCCATGTCCATGACAAACCAGAGC CTGGGAGGAGCTGGATGGCGGCCTG
3902	Table 3A	Hs.5174	BF307213	11254322	ribosomal protein S17 (RPS17), mRNA /cds=(25,432)	1	AAACACACAGCAAGAACACGAAAGG AGCAACCCAAATAGGAAAGCGG
3903	Table 3A	Hs.84883	BF307871	11255039	mRNA for KIAA0864 protein, partial cds /cds=(0,3656)	1	ACAGCGTGGATATAAGGACCAAGAG ACTAGGGCGCATACTATGATTGCGCA
3904	Table 3A	Hs.63908	BF309911	11257388	hypothetical protein MGC14726 (MGC14726), mRNA /cds=(21,653)	1	ATGGACACGAGGACGGAAGTGGGGG TACTAGAACACCTTCTCTGAAAA
3905	Table 3A	Hs.292457	BF310166	11257703	Homo sapiens, clone MGC:16382 IMAGE:3927795, mRNA, complete cds /cds=(498,835)	1	AGACCAACGAGAGGAGAAAAAGC AAGACCAACAAAGACAAACAACGCG
3906	Table 3A	NA	BF313858	11261925	601902281F1 5' end /clone=IMAGE:4134998	1	AAAAAATCGGGCTTTTCTGGGGGAA AGGGAAGGGCGGGGAATGCTGGCC

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3907	Table 3A	NA	BF315059	11263244	601899090F1 5' end /clone=IMAGE:4128334	1	CTACAACAATACAGCACACAGCATAA GCGCACAGGGCAGTAGACTAGGCCAA
3908	Table 3A	Hs.99858	BF315159	11263380	ribosomal protein L7a (RPL7A), mRNA /cds=(31,831)	1	CAAGAGAGTGGAGACGAGTACGCCGA GAACGCACGACACAGAGCGCAAGAA
3909	Table 3A	Hs.268177	BF339088	11285508	phospholipase C, gamma 1 (formerly subtype 148) (PLCG1), mRNA /cds=(76,3948)	1	TCTGCTGCCCTCTTAAGATCTGACTG CCAAATAAATCATCTCATGTCTCT
3910	Table 3A	Hs.296317	BF340402	11286776	mRNA for KIAA1789 protein, partial cds /cds=(3466,4899)	1	GATGAGAAACAACCACAAGGAAGAG GGCAGCGCCGGAGACCTACAGAAAG
3911	Table 3A	Hs.116567	BF341330	11287821	602013274F1 cDNA, 5' end /clone=IMAGE:4149066 /clone_end=5'	1	GCGGGGGGCACTGGCTCTTCACATT GGTTGCGAGTTGCACACACCACAAC
3912	Table 3A	Hs.2554	BF341359	11287850	sialyltransferase 1 (beta-galactoside alpha-2,6-sialyltransferase) (SIAT1), mRNA /cds=(310,1530)	1	GGGGGAAGCGGAAGGGTTGGATTGG GTGAAAAAAGAAATTGTCGTGTTTA
3913	Table 3A	Hs.28788	BF341640	11288138	602016073F1 cDNA, 5' end /clone=IMAGE:4151706 /clone_end=5'	1	ATAATAGAGGAGAGATATTGTAAATA GAGACTGGCAGCAGTTCCACAAA
3914	Table 3A	Hs.33905	BF342246	11289148	602041247F1 cDNA, 5' end /clone=IMAGE:4179250 /clone_end=5'	1	AGTGGCAGGTGCAATTGTCTGGTTCG ATTTGTGTTCCCAACAGTCTGAAAT
3915	Table 3A	Hs.127863	BF342439	11289452	601898969F1 cDNA, 5' end /clone=IMAGE:4128112 /clone_end=5'	1	GAGCCCCACGGGAAGGGAACCCAGC AACACGGAAATAAGTTGGACCGATC
3916	Table 3A	Hs.205442	BF377518	11339543	601439689F1 cDNA, 5' end /clone=IMAGE:3924407 /clone_end=5'	1	ACAACCTGAGAAATAATTCGTTCAAT ACCAGACTCCAACATTCTGATCT
3917	Table 3A	Hs.319825	BF380732	11369857	602021477F1 cDNA, 5' end /clone=IMAGE:4156915 /clone_end=5'	1	GTCTATTACAAAGTAAGAGAGTCAA TTACTCCAGGAGGAGAATTGCAGG
3918	Table 3A	Hs.5174	BF381953	11363256	ribosomal protein S17 (RPS17), mRNA /cds=(25,432)	1	ACCAGACACGGACACACAGAACAC AAGAAAACACAAAACAGAGCAACC
3919	Table 3A	Hs.112237	BF525720	11613081	602321076F1 cDNA, 5' end /clone=IMAGE:4424130 /clone_end=5'	1	CGGTTGGGTCTCTCAAATATGCCTGT TTGGTTAACAAAAGCGGTTGTGAA
3920	Table 3A	Hs.136537	BF526066	11613527	602071176F1 cDNA, 5' end /clone=IMAGE:4214059 /clone_end=5'	1	GATAAAGAAGGGCGCGGGAACAG CGAGGGAAGGACGGGCTGGGAGAAC
3921	Table 3A	Hs.274472	BF526421	11613784	high-mobility group (nonhistone chromosomal) protein 1 (HMG1), mRNA /cds=(52,699)	1	ATCTCTGGCAATACTGTCTGATTACG GGGGTGATGCCGACGGTTAAAAAC
3922	Table 3A	Hs.334825	BF530382	11617745	cDNA FLJ14752 fis, clone NT2RP3003071 /cds=(205,1446)	1	GAACACAAAAACCTCTTCTATAACG GGGACACACGCCAAGGGGACAAGT
3923	Table 3A	Hs.255390	BF531018	11618379	602072345F1 cDNA, 5' end /clone=IMAGE:4215251 /clone_end=5'	1	TTGGGTGCAACAACCAATACACTTAT ACTTGAAACCACGGGCCATATTA
3924	Table 3A	Hs.146428	BF569545	11642925	pro-alpha-1 (V) collagen mRNA, complete cds /cds=(229,5745)	1	AGGAGGAACAAAAACCGCAGCGTGG ATTTCAAATTTCTGGAAGTAAGTCT
3925	Table 3A	Hs.22265	BF571362	11645074	pyruvate dehydrogenase phosphatase (PDP), mRNA /cds=(131,1855)	1	AAATTCGCGCACCCCTTTGTTTATTG CCCCGGTTACAAGGTTTGAACCTG
3926	Table 3A	Hs.301183	BF572855	11646567	molecule possessing ankyrin repeats induced by lipopolysaccharide (MAIL), homolog of mouse (MAIL), mRNA /cds=(48,2204)	1	CGGGCCAGTATGAATGTAGGGTCAA GGAACGCCGAGGGTTTCACAAAAGG
3927	Table 3A	Hs.79530	BF663116	11937011	M5-14 protein (LOC51300), mRNA /cds=(188,1043)	1	CTCAGTGTAGGGCAGAGAGGTCTAA CACCAACATAAGGTACTAGCAGTGT
3928	Table 3A	Hs.11356	BF665055	11938950	602119656F1 cDNA, 5' end /clone=IMAGE:4276860 /clone_end=5'	1	AGAATATATGTATTTTGAAGGAAAG GACTTGGGGATTTTAAACAGGGCA
3929	Table 3A	Hs.3585	BF666961	11940856	602121608F1 cDNA, 5' end /clone=IMAGE:4278768 /clone_end=5'	1	GAGACTCTCGTTGTCTCCTCTTCTGC TCTCTTCTGTGTGGAGGGGAGGA
3930	Table 3A	Hs.46677	BF667621	11941516	PRO2000 protein (PRO2000), mRNA /cds=(650,1738)	1	AGGTTGTGGGGAGTATGTTTGGACCA AAAAATTAAATATTGTTGGGAGGGA
3931	Table 3A	Hs.343615	BF668050	11941945	602621493F1 cDNA, 5' end /clone=IMAGE:4755166 /clone_end=5'	1	GACCTTACCTGGTGGTTTGTGGTTT GTTCTCCGAAAAATGCGGGGTTT
3932	Table 3A	Hs.12035	BF668230	11942125	602122419F1 cDNA, 5' end /clone=IMAGE:4279300 /clone_end=5'	1	CACCCTGGGTTTTAAAGTGTGGGAGA AAAGCGCCCGGAAGAAGGAAACAA
3933	Table 3A	Hs.324342	BF668584	11942479	602123634F1 cDNA, 5' end /clone=IMAGE:4280408 /clone_end=5'	1	GAGGGGACCGGCCACTGTGGGCAAGC AGATATGCTAATTGGGAATTATAGG
3934	Table 3A	Hs.285729	BF670567	11944559	602013364F1 cDNA, 5' end /clone=IMAGE:4149351 /clone_end=5'	1	ATGACTTGTGAATACCTGAGTTATAC TTCCCAACAGATGTGCCTAACAC

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3935	Table 3A	Hs.27590	BF671020	11944915	histone acetyltransferase (MORF), mRNA /cds=(315,6536)	1	TGATAGCTCACTTAGTTAATTGTTTTG AAGCAAATTTGGGTTGGATGGG
3936	Table 3A	Hs.99858	BF673951	11947848	ribosomal protein L7a (RPL7A), mRNA /cds=(31,831)	1	GACACAGAAGAGAGACAGAAGAGAA ACGGTCGAGGAGAAGAAGCAGGAGC
3937	Table 3A	Hs.96566	BF673956	11947851	602137338F1 cDNA, 5' end /clone=IMAGE:4274048 /clone_end=5'	1	AAAGACCAGAGACAGGGAGACACGG CAGACAGAGCGCCGACAAAGAAGAG
3938	Table 3A	Hs.181357	BF676042	11949937	laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA /cds=(85,972)	1	CAAGGCGACATGGGAGAGCGAGAAG GCTAGGAGGACGACAGACAAGGAAA
3939	Table 3A	Hs.122406	BF677944	11951839	602084766F1 cDNA, 5' end /clone=IMAGE:4248905 /clone_end=5'	1	GAATTTTGGGGAGGTTACTGGTCGG GGGAAATAACAGGGTTGGACAAACG
3940	Table 3A	Hs.131887	BF678298	11952193	602415255F1 cDNA, 5' end /clone=IMAGE:4523725 /clone_end=5'	1	CTCCACATATGGGTAACACACTCGGT CCTTACAAGCACCTAGTCACTTCC
3941	Table 3A	Hs.205319	BF679831	11953640	602154415F1 cDNA, 5' end /clone=IMAGE:4295595 /clone_end=5'	1	GGGACCAGACTGCTTTCTAAATGCAC AGCTCTTTCATATCAGAATGTGT
3942	Table 3A	Hs.34549	BF680988	11954883	602620663F1 cDNA, 5' end /clone=IMAGE:4746422 /clone_end=5'	1	TGTGGTCACTTGGGAAATAAATTCCA TCTGGCTTACCCAATGGGTGGTGG
3943	Table 3A	Hs.10702	BF684382	11969790	hypothetical protein DKFZp761H221 (DKFZp761H221), mRNA /cds=(778,1714)	1	CCACAGCCACAACACCAGACAAGCC GACCAACAGACAGATACAGACCACC
3944	Table 3A	Hs.164675	BF689700	11975108	602186609F1 cDNA, 5' end /clone=IMAGE:4298402 /clone_end=5'	1	ACCACAGCAAGACAACAGGACGAG AAAGAGAACAGCAATGAGCAACGA
3945	Table 3A	Hs.71331	BF691178	11976586	hypothetical protein MGC5350 (MGC5350), mRNA /cds=(189,995)	1	ACTACTGCTTGCGTACCTCTCCGCTT TCCCTCTCCTTACTATCGACCATA
3946	Table 3A	Hs.173985	BF691895	11977303	ribosomal protein S6 kinase, 90kD, polypeptide 3 (RPS6KA3), mRNA /cds=(0,2222)	1	TCCGTTTATATTAGCACTGTATCCCTT GTGCCATCCAACATTTTGTATGT
3947	Table 3A	Hs.233936	BF694761	11980263	myosin, light polypeptide, regulatory, non-sarcomeric (20kD) (MLCB), mRNA /cds=(114,629)	1	CGGGCGCAGGACAGTAGCAGAGAAG AGAGGTGGAGAGCCGACACGCGAG
3948	Table 3A	Hs.318782	BF696330	11981738	602808469F1 cDNA, 5' end /clone=IMAGE:4940633 /clone_end=5'	1	CTTCAGTCATTATGGGCTCAGTTTCC TCACTATTGGTTCTCGCAAGGGA
3949	Table 3A	Hs.103180	BF698884	11984292	602126455F1 cDNA, 5' end /clone=IMAGE:4283340 /clone_end=5'	1	AAGAGCAACAACGAGGCGAAGAGGA AGGAGGAGGCAAGACAGAAGAGGAA
3950	Table 3A	Hs.252723	BF698920	11984328	ribosomal protein L19 (RPL19), mRNA /cds=(28,618)	1	GAGGAGCAACGACCAGAGAGACGAA CTGACATCAACCATAGAAAGACGACA
3951	Table 3A	Hs.323662	BF700502	11985910	hypothetical protein MGC14595 (MGC14595), mRNA /cds=(101,850)	1	AAGCATGAAGAAGACCTGGATGAGG CTCAGGGAGGTTCCCCAGTTTAAA
3952	Table 3A	Hs.253550	BF750565	12077241	RC1-BN0410-261000-014-f11 cDNA	1	ATCAGTCAATCAGTCAGCTTCTCAGA GTAGCAATCCATGTGTCCAGAGGA
3953	Table 3A	Hs.10957	BF793378	12098432	602254823F1 cDNA, 5' end /clone=IMAGE:4347076 /clone_end=5'	1	AAATCCAATCCTTCGGAGAGGGAATG GGCGGTATTAATTAAGGGAAGTCC
3954	Table 3A	Hs.293658	BF794089	12099143	602255649F1 cDNA, 5' end /clone=IMAGE:4338732 /clone_end=5'	1	ATGACAAGACAAGCCAGACGAAGAA GACAAACAAGGGAGACACAGCAGAC
3955	Table 3A	Hs.208761	BF794256	12099310	602255454F1 cDNA, 5' end /clone=IMAGE:4338949 /clone_end=5'	1	TGCGCCCCAATATTTGTGGAACAGCG TTTTGTTGGAATAAACGATCGGT
3956	Table 3A	Hs.246818	BF796642	12101696	602259846F1 cDNA, 5' end /clone=IMAGE:4343171 /clone_end=5'	1	CTCGAGGTGTAACCTCAGGAAGGCCT AGCGAATCCCGACTCGGATGGTGTC
3957	Table 3A	Hs.54452	BF797348	12102402	zinc finger protein, subfamily 1A, 1 (Ikaros) (ZNF1A1), mRNA /cds=(168,1727)	1	TTCACCTACTCTGTTCTTTTATCCAT CCCCTGAGTCAGTTGGTTGGAGG
3958	Table 3A	NA	BF821451	12160669	RT0038 cDNA	1	CTGTTGTCTGGAGTGTGGAGTCTCTT GTCTGGATTGTGGAGTCTCTTGTCT
3959	Table 3A	NA	BF889206	12280465	RC6-TN0073-041200-013-H02 cDNA /gb=BF889206	1	CAAGATGATGCTTGCTGTCTTTTCCCT CTCGGCTACCCAGAAATGGCATTTTG
3960	Table 3A	Hs.38664	BF892532	12283991	IL0-MT0152-061100-501-e04 cDNA	1	AGTACTCATGACTTGAGAGACGTGGA CGGAGCCAGCTTCTACCTTGCTTG
3961	Table 3A	Hs.337534	BF965068	12332283	602268833F1 cDNA, 5' end /clone=IMAGE:4356776 /clone_end=5'	1	GGTCCGACCAATTAATGACTCCATGA TCGGCCTCGGTTTTCACAAACCTT
3962	Table 3A	Hs.334691	BF965438	12332653	hypothetical protein FLJ22427 (FLJ22427), mRNA /cds=(40,2631)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT
3963	Table 3A	Hs.133884	BF965766	12332981	602276890F1 cDNA, 5' end /clone=IMAGE:4364495 /clone_end=5'	1	TTACATTTGTGGACCATGTTACAGTTA AAGAAAAATCCTGTTTCACTGCTT

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3964	Table 3A	Hs.279681	BF965960	12333175	heterogeneous nuclear ribonucleoprotein H3 (2H9) (HNRPH3), transcript variant 2H9, mRNA /cds=(118,1158)	1	GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTAAGGTTCTCAGTGACAC
3965	Table 3A	Hs.5324	BF966028	12333243	hypothetical protein (CL25022), mRNA /cds=(157,1047)	1	ATTTTAAATGGCTTTACCAAACATTG TCAGTACCTTTACGTGTTAGAAG
3966	Table 3A	Hs.179902	BF966049	12333264	transporter-like protein (CTL1), mRNA /cds=(0,1964)	1	CTTTCCACAGCAATTGTTTGTACGA GGGGCCCTACAGCGCGGTCCACTT
3967	Table 3A	Hs.48320	BF966269	12333484	mRNA for ring-IBR-ring domain containing protein Dorfin, complete cds /cds=(317,2833)	1	TTCTACAGCACATGCGCTGGATCTAC TGACCTGTCAACCACGAATCTTGA
3968	Table 3A	Hs.171802	BF966361	12333576	RST31551 cDNA	1	GAAACAGCAACAGCAACAGGATCT CAGCATTACCAACAGCCAGCACTA
3969	Table 3A	Hs.22790	BF966270	12335485	602269653F1 cDNA, 5' end /clone=IMAGE:4357740 /clone_end=5'	1	TGAGCCTGAACCTTTTATAGCAATTAT TATTCTCAGTTTCCATTACCTGT
3970	Table 3A	NA	BF966828	12335843	cDNA clone IMAGE:4359351 5'	1	CCTTCCAAAGCGGTCACTGTATAGG GAAGTCTTACGGCTACGAAGTTACA
3971	Table 3A	Hs.5064	BF968963	12336178	602490910F1 cDNA, 5' end /clone=IMAGE:4619835 /clone_end=5'	1	GAATGGTGGGGAGAAAAAGGGGGG CACAGTCATGATCGGCTCTTATAAT
3972	Table 3A	Hs.24143	BF969990	12337205	Wiskott-Aldrich syndrome protein interacting protein (WASPIP), mRNA /cds=(108,1819)	1	GTCACATAATCCGGGGACCCAAAGAA AGTTCTCCAGAGTGGTTTCACGAG
3973	Table 3A	Hs.23703	BF970427	12337642	602272760F1 cDNA, 5' end /clone=IMAGE:4380767 /clone_end=5'	1	ACAACAACACATCACGTAAACCACAAC ACGCATAAACAGCAAAATCATCCTA
3974	Table 3A	Hs.102647	BF970875	12338090	602271536F1 cDNA, 5' end /clone=IMAGE:4359609 /clone_end=5'	1	CAGAACACCAACAAGCAGGGACGGA AGCCGACCGAGCAACAGCGAAGGG
3975	Table 3A	Hs.321477	BF970928	12338143	602270204F1 cDNA, 5' end /clone=IMAGE:4358425 /clone_end=5'	1	GTGGACGGCTTGGGAATGTGCCCCC CGGTGTAACATCGAGCCACAAATGG
3976	Table 3A	Hs.79101	BF971075	12338290	cyclin G1 (CCNG1), mRNA /cds=(187,1074)	1	AGGATTAGGAGAGGGTCACAGAACAA GAAAGCAGATTACACTTGGGATGGA
3977	Table 3A	Hs.33028	BF971984	12339199	mRNA for FLJ00037 protein, partial cds /cds=(3484,3921)	1	CTCTGTTTGTCTGGCCGCTCCGTGA TCAAACCGTGTGCTCGGCGTGTTC
3978	Table 3A	Hs.146550	BF976590	12343805	DNA sequence from clone RP1-68O2 on chromosome 22 Contains the 5' end of the APOL2 gene for apolipoprotein L 2, the APOL gene for apolipoprotein L, the MYH9 gene for nonmuscle type myosin heavy chain 9. ESTs, STSs and GSSs /cds=(0,5882)	1	GGCTTGGACATTGCTCTCAAGAAGAT TAAGAACCCTGGAGGAACACTAGG
3979	Table 3A	Hs.7905	BF981080	12383892	602310311F1 cDNA, 5' end /clone=IMAGE:4401411 /clone_end=5'	1	TGTACAGCTAAATTTCTCCAAAGCAC TTTTCAAAACCAAAAAAGAAAAA
3980	Table 3A	Hs.182740	BF981263	12384075	ribosomal protein S11 (RPS11), mRNA /cds=(33,509)	1	TTTGCACTGAACACTTACAGATGT GGCAGATGTGAAATTTGTCATCAA
3981	Table 3A	Hs.289721	BF981634	12384446	cDNA: FLJ22193 fis, clone HRC01108 /cds=UNKNOWN	1	ACAGAGAGTCAACCGCGAGTACGAA ACAGGCACATTTTACAACTCACA
3982	Table 3A	Hs.83583	BG024761	12410861	actin related protein 2/3 complex, subunit 2 (34 kD) (ARPC2), mRNA /cds=(84,986)	1	AGGTTCTTACCACCACCTTTGTGCCC ATCTTCCCTCGTTCCCAATGTG
3983	Table 3A	Hs.1432	BG026279	12413729	protein kinase C substrate 80K-H (PRKCSH), mRNA /cds=(138,1719)	1	CCGGGGTGGCCCTCTCAAATTTGGC ATGGGGTCTCTTTCAATGTTGTGG
3984	Table 3A	Hs.279009	BG028577	12417672	matrix Gla protein (MGP), mRNA /cds=(46,357)	1	CACGAGCGGCTGGAGACACCCATT TTGTGCAGTGCCCGTCCGTCCCTTC
3985	Table 3A	Hs.5122	BG028906	12418001	602293015F1 cDNA, 5' end /clone=IMAGE:4387778 /clone_end=5'	1	GCCCTATGGCGTTGTTAAACACGAGC GTATGCTAGTAAGTATCATTCATA
3986	Table 3A	Hs.143554	BG033028	12424903	Pur-beta (PURB) mRNA, complete cds /cds=(13,951)	1	GGTGTGTCTCGCGGTGGCCAGTC TATTCTCGGTGTTATCTTCATCAC
3987	Table 3A	Hs.118787	BG033294	12425446	transforming growth factor, beta-induced, 68kD (TGFBI), mRNA /cds=(47,2098)	1	GACAAACGAACTCTGTCTTACCAC CATGTGACAGACGCGTTGATGGCT
3988	Table 3A	Hs.103902	BG033732	12426494	602301101F1 cDNA, 5' end /clone=IMAGE:4402465 /clone_end=5'	1	CAAGACACAACAGCAGCACTCACAC AGAGAAAGCAACCATGCCAGGAG
3989	Table 3A	Hs.306155	BG033909	12426670	chorionic somatomammotropin hormone 1 (placental lactogen) (CSH1), transcript variant 2, mRNA /cds=(116,886)	1	CGCGTCGAACCTCGGGACATTCCCG TAAACCACAAACAGATAAAGAATTA
3990	Table 3A	Hs.332404	BG033953	12426761	CDA02 protein (CDA02), mRNA /cds=(2,1831)	1	GCGTAAAGTGATCAAAAGGCCCTGAA GGGGAAATGATAAAACCGTGGT
3991	Table 3A	Hs.12396	BG034192	12427253	602302446F1 cDNA, 5' end /clone=IMAGE:4403886 /clone_end=5'	1	AGAGGAAGCGTGTGAATACAACAATC TAAAGAGGAGGAGGTCGAGCAC
3992	Table 3A	Hs.125819	BG034799	12428456	putative dimethyladenosine transferase (HSA9761), mRNA /cds=(78,1019)	1	ACACATTCCCCATACCATTTCGTGTT ATTACATTCCCCGTAGCATTTCT

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3993	Table 3A	Hs.16488	BG035120	12428935	calreticulin (CALR), mRNA /cds=(68,1321)	1	TAAAAAGGGGGTGGCGGCTGTAGTA
3994	Table 3A	Hs.17719	BG035218	12429131	EBP50-PDZ interactor of 64 kD (EPI64), mRNA /cds=(24,1550)	1	AGGAGGAGCGAGTAATGTATAGCAC
3995	Table 3A	Hs.319825	BG038101	12430901	602021477F1 cDNA, 5' end /clone=IMAGE:4156915 /clone_end=5'	1	CCATGAGCAGGCGCAACCATAACAG
3996	Table 3A	Hs.192965	BG038938	12432665	602287708F1 cDNA, 5' end /clone=IMAGE:4375153 /clone_end=5'	1	TTAGAGACGGCAGCAGCAGCAGCAC
3997	Table 3A	Hs.144924	BG037042	12432874	serine/threonine protein kinase SSTK (SSTK), mRNA /cds=(122,943)	1	ACTCAGCGAAGAGCAGGGGGACTAT
3998	Table 3A	Hs.318893	BG106948	12600794	602291361F1 cDNA, 5' end /clone=IMAGE:4388159 /clone_end=5'	1	AACAGAAATAAACAAGTAAATAAAT
3999	Table 3A	Hs.109007	BG110599	12604105	602342214F1 cDNA, 5' end /clone=IMAGE:4452602 /clone_end=5'	1	TACACAGGCGCTATGCGGATCATCA
4000	Table 3A	Hs.173737	BG110835	12604341	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) (RAC1), transcript variant Rac1b, mRNA /cds=(0,635)	1	GACGAGCACATATTCTAACAGAGA
4001	Table 3A	Hs.323950	BG111212	12604718	zinc finger protein 6 (CMPX1) (ZNF6), mRNA /cds=(1265,3361)	1	CGTCGCCGTAGGACGCCCTCCGTCGT
4002	Table 3A	Hs.34906	BG111773	12605279	601820448F1 cDNA, 5' end /clone=IMAGE:4052578 /clone_end=5'	1	CGTCTGGTCTGTCTCTCGCATCGAG
4003	Table 3A	Hs.74313	BG112085	12605591	mRNA for KIAA1265 protein, partial cds /cds=(66,2573)	1	AAAGGCAAGAGTCCGGGGTGGCAGA
4004	Table 3A	Hs.320972	BG112503	12606009	602282105F1 cDNA, 5' end /clone=IMAGE:4369633 /clone_end=5'	1	AGAGTGAAAAATGAAAGAGAGAAGG
4005	Table 3A	Hs.7589	BG112505	12606011	602282107F1 cDNA, 5' end /clone=IMAGE:4369729 /clone_end=5'	1	TTCTGCCCAGAGTGATTTGTGAAGA
4006	Table 3A	NA	BG118529	12612035	cDNA clone IMAGE:4443519 5'	1	GTCTCTTATATTATGTTTTGTGGA
4007	Table 3A	NA	BG121288	12614797	cDNA clone IMAGE:4450407 5'	1	GTGCGAATGTGGAGTGTTTTACATTG
4008	Table 3A	Hs.285729	BG163237	12668951	602013364F1 cDNA, 5' end /clone=IMAGE:4149351 /clone_end=5'	1	ATCTTTGCTAATGAATTAGCATCA
4009	Table 3A	Hs.111554	BG164898	12671532	ADP-ribosylation factor-like 7 (ARL7), mRNA /cds=(14,592)	1	CATTACGCATATTGGTAAGACGCAAA
4010	Table 3A	Hs.193482	BG165998	12672701	cDNA FLJ11903 fis, clone HEMBB1000030 /cds=UNKNOWN	1	ATGAGACAGATCGACACTGGGACG
4011	Table 3A	NA	BG168279	12672982	cDNA clone IMAGE:4455496 5'	1	CACAAACGGGCTCTTAATGACCGGAA
4012	Table 3A	Hs.87113	BG168139	12674842	602341526F1 cDNA, 5' end /clone=IMAGE:4449343 /clone_end=5'	1	AGATACATCCATCGGTATGAACGC
4013	Table 3A	Hs.182695	BG170847	12677350	mitochondrial ribosomal protein 63 (MRP63), mRNA /cds=(215,523)	1	ACCAGCAATCCGAGCAGAGTCATAA
4014	Table 3A	Hs.204959	BG180098	12686801	hypothetical protein FLJ14886 (FLJ14886), mRNA /cds=(111,1169)	1	GTGGGGTAGGTGATGTACTAAC
4015	Table 3A	NA	BG249224	12759040	cDNA clone IMAGE:4470038 5'	1	GAAAAACAAGCTAACAAACACACAC
4016	Table 3A	Hs.6882	BG254117	12763933	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11 (SLC7A11), mRNA /cds=(235,1740)	1	GCCCACCAACATGCCAGAACGC
4017	Table 3A	NA	BG254292	12764108	cDNA clone IMAGE:4477042 5'	1	TGAACATGGGTGGGTTTGACACGAG
4018	Table 3A	Hs.30724	BG260954	12770770	602372562F1 cDNA, 5' end /clone=IMAGE:4480647 /clone_end=5'	1	GATTCGGCTGAAAAGATTAGAGGG
4019	Table 3A	Hs.217493	BG282346	13031273	annexin A2 (ANXA2), mRNA /cds=(49,1088)	1	CGCGTTCATAACGGCGTGCAGCTGTC
4020	Table 3A	Hs.71243	BG283002	13032445	602408192F1 cDNA, 5' end /clone=IMAGE:4518214 /clone_end=5'	1	TTGTGCTGCTGTTATCTACTAT
4021	Table 3A	Hs.322653	BG283132	13032707	602408784F1 cDNA, 5' end /clone=IMAGE:4518957 /clone_end=5'	1	GGGACCAGACTACACGGAATACCAG
4022	Table 3A	Hs.246818	BG283706	13033918	602259846F1 cDNA, 5' end /clone=IMAGE:4343171 /clone_end=5'	1	AGTTGAAGAAAATTAGATTTAAGC
						1	TATACTGAGAGTGAAGTCTGGGTGC
						1	CAACTTGACACAGGTGGTCTAGGA
						1	CCCCTGGTTTTCTCGTTCTGCCTCCT
						1	TTGGACCTGTGTTTGTCTCTGCT
						1	CCCTTAGAATGGTACTGCCCTTGAA
						1	TAACTTGACACAACCTTGGGTGG
						1	CGAATAATCCCTATTGATTACCTCA
						1	GAAAAGTTTTGTCTCCGCCAAGG
						1	TTGGACCCAGGGTAAGCGGATAT
						1	TGGTTGGGACGTTCCGGGAGTGAT
						1	AATTACGTTCCGAGGTATATAAAAG
						1	GGATCGGCGCAGTGATAGGGGGT
						1	GGAGATCCACAGTGATCTCAGGCC
						1	TGGACCGGAAAAGCAGCCAGTGA
						1	AAGACGAGTACACCAAGACCAAGCA
						1	GCGCCAACGAGCAGCAGCCAGTGAA
						1	AACGCCGACTAGACGTCACAAAGACT
						1	TAATAAGAAACACAGCATGATATCCA
						1	CGCAACATTATCCATTAAACCCCTG
						1	CATAACCCATTACCAAGCCCTCT
						1	GGCACCCCAATCCCCGGCAAAAACA
						1	TTGTAAACCTCTTGGAATTCTT
						1	CTCGTCTGCACCGGAGTCTCACAAAT
						1	TTAGCATCTGGGTCTTGAGCATT
						1	CCCTCCGGGGTCTCTATACCCACAAC
						1	CTTCTATCACTCAATCAGTTGGTA
						1	AACAAGATAGAGAGAAGCAGAAGATC
						1	GACACAGACAAACAACCAACCCG
						1	TGTTGGGACCCTCATCTCAGGGTC
						1	ATTTCACCAATAAGCGCCCTTTT

Table 8

4023	Table 3A	Hs.151239	BG286500	13039430	602382992F1 cDNA, 5' end /clone=IMAGE:4500527 /clone_end=5'	1	CCCTGAAATCCTAAATTCGGTCACCC CTCCAACATGACCATAAAAGTCCC
4024	Table 3A	Hs.323950	BG286649	13039715	zinc finger protein 6 (CMPX1) (ZNF6), mRNA /cds=(1265,3361)	1	GACCACGTTATGTGCCTGACTTCGAG GACACCCTCTCTGGTTTGGTATTT
4025	Table 3A	Hs.278428	BG286817	13040034	progesterone induced protein (DD5), mRNA /cds=(33,8432)	1	TCTCCTTTTCAGTTCCTTTGTAGGATT CTGGCCTTGAGGATAGTCTTCA
4026	Table 3A	NA	BG288308	13043014	cDNA clone IMAGE:4512706 5'	1	TCTCATCAACATTTGACTCTCAGAAG AGCCTCCATTTGCCCTTTCTCTCT
4027	Table 3A	Hs.115467	BG288391	13043387	602388053F1 cDNA, 5' end /clone=IMAGE:4517076 /clone_end=5'	1	GCAGAGCAGACCTTATTACGCACAAT TGCCGGTAACATGTAAACACCACTT
4028	Table 3A	Hs.11637	BG288429	13043463	602388093F1 cDNA, 5' end /clone=IMAGE:4517086 /clone_end=5'	1	ATTGGGCATGGTTGGTCCAATGCCTC ACATGGCCGGGATAACAGGACGCA
4029	Table 3A	Hs.79101	BG288554	13043326	cyclin G1 (CCNG1), mRNA /cds=(187,1074)	1	CAAAGGGTGTAATTCACATTGACAC TCCTGTATCGCGGTGGGCGGGGAAC
4030	Table 3A	Hs.44577	BG288837	13044076	602388170F1 cDNA, 5' end /clone=IMAGE:4517129 /clone_end=5'	1	CTAGCTCACTAGTTGTGCCTATATGC CACACCGGGGACCCCAACAGGGT
4031	Table 3A	Hs.173830	BG289048	13044499	602383666F1 cDNA, 5' end /clone=IMAGE:4512712 /clone_end=5'	1	ATACTGTGTGATTGCCCTTGCTGTC CAACCCTGTCTTGCTGCCATTTA
4032	Table 3A	Hs.169363	BG289347	13045100	GLE1 (yeast homolog)-like, RNA export mediator (GLE1L), mRNA /cds=(87,2066)	1	GTGGCCTGAAGTGACCCATTCTATGA ATTGTTAATTAAGGTGCCAAAAAA
4033	Table 3A	Hs.79914	BG290141	13046637	lumican (LUM), mRNA /cds=(84,1100)	1	GGGTTTGAGACTTGGGTATGAAACA GAACCGGAAATTTGTGCTCTGGT
4034	Table 3A	Hs.129872	BG290577	13047679	sperm associated antigen 9 (SPAG9), mRNA /cds=(110,2410)	1	ATTTCTATTATGGAATCCCTGGGGTT CAGAATGTAACTTTGTACATGAGA
4035	Table 3A	Hs.95835	BG291649	13049586	RST8356 cDNA	1	GACAGTACACCTCAGGGAAGGGACA AACAAACACGATAAATCGACACACG
4036	Table 3A	Hs.289088	BG291970	13050316	heat shock 90kD protein 1, alpha (HSPCA), mRNA /cds=(60,2258)	1	TCAGACCCAGTCTTGTTGATGGAAAT GTAGTGCTCGAGTCACATTCTGCT
4037	Table 3A	Hs.322804	BG311130	13112931	la55a08.y1 cDNA, 5' end /clone_end=5'	1	TCCTGAGCCCCACACGCCCGAAGCA ATAAAGAGTCCACTGACTTCCAAAA
4038	Table 3A	Hs.180219	BG326781	13133218	602425659F1 cDNA, 5' end /clone=IMAGE:4563471 /clone_end=5'	1	ACGAATATCGAATCTCCACGCGGG GGGTGAGACCCGAATCTGCGGCTGC
4039	Table 3A	Hs.292457	BG339050	13145488	Homo sapiens, clone MGC:16362 IMAGE:3927795, mRNA, complete cds /cds=(498,635)	1	AGACACACGAGCAAAACGACGCAGC AAGAATCAGATAGCATAGCAAAAT
4040	Table 3A	Hs.170980	BG387694	13281140	cell cycle progression 2 protein (CPR2), mRNA /cds=(128,1691)	1	GCAGTGGGACGGAACGGGTGAAGCC TGATGGCTGATGCGGCACGATCTTG
4041	Table 3A	Hs.266175	BG391695	13285143	cDNA FLJ20673 fis, clone KIAA4464 /cds=(104,1402)	1	CTTTAAATCTTAGATTGCTCCGCACA GATAAAGAGAACCAGGATTGGGGC
4042	Table 3A	Hs.301226	BG396292	13289740	mRNA for KIAA1085 protein, partial cds /cds=(0,1755)	1	TTTATTTGGGTACTTTTCCCAACACA AGTCCTTTTATCCCACTCTGGG
4043	Table 3A	Hs.58643	BG397564	13291012	602438603F1 cDNA, 5' end /clone=IMAGE:4564968 /clone_end=5'	1	AAAAGATCTCGGAAATAGCATTTTG TTAAACCTTGGGGGGTAAACCC
4044	Table 3A	Hs.26670	BG403635	13297083	PAC clone RP3-515N1 from 22q11.2- q22 /cds=(0,791)	1	AACCTTCATGCAAGTGAGACGGGTA GGGGGTTCTATGGGGCATTGGTTG
4045	Table 3A	Hs.292457	BG424974	13331480	Homo sapiens, clone MGC:16362 IMAGE:3927795, mRNA, complete cds /cds=(498,635)	1	TGTGAAAAGCTGATAAGAAAACCATC CAGAAAAAGCTCTTCGTTTACA
4046	Table 3A	NA	BG427404	13334006	cDNA clone IMAGE:4612518 5'	1	TCATTATAATCTGTCTAGGAAATCA AATTAGAACGCTCCCAAGCCGG
4047	Table 3A	NA	BG432194	13338700	cDNA clone IMAGE:4610035 5'	1	CGCAGAGCTGGGCCTTACAAATGGG TTCCAAATCGGGCTTCTACTCAGG
4048	Table 3A	Hs.28491	BG434865	13341371	spermidine/spermine N1- acetyltransferase (SAT), mRNA /cds=(165,680)	1	TACAACCTGTACCACACTGGGTACTC TAGAAGTCTCTGCTCGGATCCTTC
4049	Table 3A	Hs.281397	BG438232	13344738	hypothetical protein AD034 (AD034), mRNA /cds=(195,1880)	1	CATAGAGCACAAGAGACACATGGAC CGGCACGCGACCCGACCCAAAGCGC
4050	Table 3A	Hs.301226	BG468330	13400600	mRNA for KIAA1085 protein, partial cds /cds=(0,1755)	1	TTTACCTCATTATTTGGTACTTTCCC CACACAGTCCTTTATCCACCTGG
4051	Table 3A	Hs.334787	BG473228	13405503	Homo sapiens, clone MGC:19558 IMAGE:4304831, mRNA, complete cds /cds=(1505,1666)	1	CCATTTTGTAGTGGGGGAGAAAATGT CACTGTGCTGGCGGAAAGAGTCCA
4052	Table 3A	Hs.292457	BG473813	13406090	Homo sapiens, clone MGC:16362 IMAGE:3927795, mRNA, complete cds /cds=(498,635)	1	CCGCACCGATTACGGCCAGAGAAG CAACAAGCAAAATAAAAGTGGGAAA
4053	Table 3A	Hs.173737	BG482798	13415077	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) (RAC1), transcript variant Rac1b, mRNA /cds=(0,635)	1	AACCTTAACCTACTGGCGAGAATACAG CGTGGGACCCTTCAGCCACTACAA



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4054	Table 3A	Hs.24054	BG489375	13450885	hypothetical protein GL009 (GL009), mRNA /cds=(77,628)	1	AGGACTTAACGGGAATACGGGAATAA CTCCAATTACTTCATCTTAGGGC
4055	Table 3A	Hs.166254	BG493253	13454765	hypothetical protein DKFZp566l133 (DKFZp566l133), mRNA /cds=(133,1353)	1	AAGGAGGTTGCTCACCAGTAGTGCTT GTTACCAAAATGTCACCAGGAGTT
4056	Table 3A	Hs.29131	BG497765	13459282	nuclear receptor coactivator 2 (NCOA2), mRNA /cds=(162,4556)	1	TGAATTAAGTGCAATTATCAATTAACCT TATGGTGGTTGGAATAGTGATCA
4057	Table 3A	Hs.172089	BG501063	13462580	mRNA; cDNA DKFZp586l2022 (from clone DKFZp586l2022) /cds=UNKNOWN	1	AAACACACAGGAAAAGGGCAAAGGG GGCACCAGGAGAACCCGGGAGACAAA
4058	Table 3A	NA	BG501895	13463412	cDNA clone IMAGE:4654344 5'	1	CGGAGAAACGGGGCCAAAAGGTTGC CGAGAGACCCGGCGAAAAGGACAGG
4059	Table 3A	Hs.279009	BG503693	13465210	matrix Gla protein (MGP), mRNA /cds=(46,357)	1	ACAAAGCATCAAAACAGCAGGGAGCTA GTGGAGAGGTCTATTGTCCAGTG
4060	Table 3A	Hs.86437	BG505271	13466788	602411368F1 cDNA, 5' end /clone=IMAGE:4540096 /clone_end=5'	1	GGGTGCATGCCAAGAAAGTATGGTT GGAATTCCTGGTACACTGAAGTGGA
4061	Table 3A	Hs.237868	BG505379	13466896	interleukin 7 receptor (IL7R), mRNA /cds=(22,1401)	1	ATGTTATCTTGGGAATTAGTGCTCTG AGCCTCTGTCTGTTACCGTAGTTT
4062	Table 3A	Hs.3280	BG505961	13467478	caspase 6, apoptosis-related cysteine protease (CASP6), transcript variant alpha, mRNA /cds=(78,959)	1	TGACCGAGTAAAAACATCTATCAAT TACACAAATGAACAAGATGTGAG
4063	Table 3A	Hs.293842	BG506472	13467989	601571679F1 cDNA, 5' end /clone=IMAGE:3838675 /clone_end=5'	1	ACAAGAAATGGTTGAGGCGAATATTG GAAACACATGGGGCTTAATGCTGAA
4064	Table 3A	Hs.111911	BG527060	13518597	602540462F1 cDNA, 5' end /clone=IMAGE:4671519 /clone_end=5'	1	GGTATTGATGCTTGGTTTTCTCTGCC AGTCCGAAATTCCTGTATTTGTCA
4065	Table 3A	Hs.12396	BG527658	13519195	602302446F1 cDNA, 5' end /clone=IMAGE:4403866 /clone_end=5'	1	TCATGCTACTTGTCTGGTTTTGTCTAT TGATACTCTCATAGCCCTTTTGA
4066	Table 3A	NA	BG531486	13523023	cDNA clone IMAGE:4699409 5'	1	GCCTGGCGGACCGGCAGCCTATATG ACGGACTTCTCTATTACTTACCAGC
4067	Table 3A	Hs.279009	BG532345	13523883	matrix Gla protein (MGP), mRNA /cds=(46,357)	1	AAACTGTTTGGAGAAATTAAGCACTC TCTGATGGGGACAACCTCTATGGA
4068	Table 3A	Hs.129872	BG532470	13524009	sperm associated antigen 9 (SPAG9), mRNA /cds=(110,2410)	1	TCTTTGTGCAGATACGTTCAACCAT AAGTGTGAGCCATTAAACCTGGT
4069	Table 3A	Hs.343475	BG533994	13525534	601556208T1 cDNA, 3' end /clone=IMAGE:3826392 /clone_end=3'	1	CACCAAAGTGGAGACAAATACATGAT CTCAAAGATACACAGTACCTACTT
4070	Table 3A	Hs.74647	BG536394	13527940	T-cell receptor active alpha-chain mRNA from JM cell line, complete cds /cds=(136,969)	1	AATAATTGGTCTTTTAAACAAACAG GAAGTTTGGTGAATCGGTCTATGT
4071	Table 3A	Hs.343475	BG536641	13528187	601556208T1 cDNA, 3' end /clone=IMAGE:3826392 /clone_end=3'	1	TGTTCTGTCCTTCTCTGGGTTCCA CAAAGGTGGGACCTTACTTATCTA
4072	Table 3A	Hs.72988	BG537502	13529734	signal transducer and activator of transcription 2, 113kD (STAT2), mRNA /cds=(57,2812)	1	AGGGAAAAACGCAGGGGGTTCAAAA ACTCTCTCACTCTATGCAGTGTATA
4073	Table 3A	NA	BG538731	13530964	cDNA clone IMAGE:4691392 5'	1	AAGCAGCTCAATAGCAGCATAGAGGA TTAGATTAAATGAACAGCACTGCA
4074	Table 3A	Hs.124675	BG541679	13533912	602571256F1 cDNA, 5' end /clone=IMAGE:4695805 /clone_end=5'	1	ACATATACAAGGACACAGAGGAAAGG CGGGAACAACGGGAAGAGGTTTTG
4075	Table 3A	NA	BG542394	13534627	cDNA clone IMAGE:4696046 5'	1	TGTGGCGATTAAAGAGAGGTGAAGCAT AACTGATTTGCAGGATATGGTTTG
4076	Table 3A	Hs.198427	BG547561	13546239	hexokinase 2 (HK2), mRNA /cds=(1490,4243)	1	AAAAGCCAAAAGGTTTCATGTAGATT TTAGTTCACTAAAGGGTGCCACACA
4077	Table 3A	Hs.83077	BG547627	13546292	Interleukin 18 (interferon-gamma-inducing factor) (IL18), mRNA /cds=(177,758)	1	GCAGAACTCTAATTGTACGGGGTCAC AGAGGCGTGATATGGTATCCCAA
4078	literature	Hs.227656	XM_001289	14732543	xenotropic and polytropic murine leukemia virus receptor (X3) mRNA, complete cds /cds=(165,2255)	1	CTTAACCATACAGAATGATATAACTC CTGTGCAATGAAGGTGATAACAGT
4079	literature	Hs.55468	XM_001939	11426048	H4 histone, family 2	1	CTTCGGAGGGCTAGGCCGCCGCTCCA GCTTTGCACGTTTCGATCCCAAGG
4080	Table 3A	Hs.170171	XM_002068	14732456	mRNA; cDNA DKFZp434M0813 (from clone DKFZp434M0813); partial cds /cds=(430,768)	1	CAAAGTCAAATAACTCTCATTTGATA CAAACGTGTAAGTCCCAAGC
4081	literature	Hs.181097	XM_002135	11428074	tumor necrosis factor (ligand superfamily, member 4 (tax-transcriptionally activated glycoprotein 1, 34kD) (TNFSF4), mRNA /cds=(36,587)	1	CCAATCCCGATCCAAATCATAATTG TTCTTAAGTATACTGGCAGGTCC
4082	Table 3A	Hs.76913	XM_002158	13639010	proteasome (prosome, macropain) subunit, alpha type, 5 (PSMA5), mRNA /cds=(21,746)	1	TCCAGCTCCTGTTCTTGAAAAATCT CCATTGTATGTGCAATTTTTAAAT
4083	Table 3A	Hs.10927	XM_002269	13636009	HSZ78330 cDNA /clone=2.49-(CEPH)	1	AACTGATGCCTGCTAGTGCTTTCTGA TTACTCGCATTCTGTTTCTTGCTT
4084	literature	Hs.81424	XM_002513	13646509	ubiquitin-like 1 (sentrin) (UBL1), mRNA /cds=(66,371)	1	TCAGGTTGAAGTCAAGATGACAGATA AGGTGAGAGTAATGACTACTCCA



Table 8

4085	Table 3A	Hs.173912	XM_003189	14735115	eukaryotic translation initiation factor 4A, isoform 2 (EIF4A2), mRNA /cds=(15,1238)	1	TCCTAGGTAGGGTTTAAATCCCAGTA AAATTGCCATATTGCACATGTCTT
4086	Table 3A	Hs.63668	XM_003304	14720715	tol-like receptor 2 (TLR2), mRNA /cds=(129,2483)	1	AGCGGGAAGGATTTTGGGTAAATCTG AGAGCTGCGATAAAGCTCTAGGTT
4087	Table 3A	Hs.89714	XM_003507	14731038	small inducible cytokine subfamily B (Cys-X-Cys), member 5 (epithelial-derived neutrophil-activating peptide 78) (SCYB5), mRNA /cds=(106,450)	1	GAGGCCCTAGCATTCTCTCTGGATA GGGGACCAGAGAGAGCTTGAATG
4088	Table 3A	Hs.66052	XM_003593	13646753	CD38 antigen (p45) (CD38), mRNA /cds=(69,971)	1	CTCCACAATAAGGTCAATGCCAGAGA CGGAAGCCTTTTTCCCAAGTCT
4089	Table 3A	Hs.251664	XM_004020	11417288	DNA for insulin-like growth factor II (IGF-2); exon 7 and additional ORF /cds=(0,233)	1	CCAATGTTTCTCTTTGGCCCTATACA AAGGCAAGAAGGAAGACCAAGA
4090	Table 3A	Hs.79197	XM_004500	13631147	CD83 antigen (activated B lymphocytes, immunoglobulin superfamily) (CD83), mRNA /cds=(41,658)	1	TTTACCTCTGCTTGGCTTTTCATGTTA TTAAACGTATGCATGTGAAGAAG
4091	db mining	Hs.159651	XM_004585	14758499	tumor necrosis factor receptor superfamily, member 21 (TNFRSF21), mRNA /cds=(0,1967)	1	GGGAAGTTGGTTTATAAGCCTTTGCC AGGTGTAAGTGTGTGAAATACCC
4092	Table 3A	Hs.279903	XM_004611	14740071	Ras homolog enriched in brain 2 (RHEB2), mRNA /cds=(23,577)	1	CCCTCCCTTCAGATTATGTTAACTCT GAGTCTGTCCAAATGAGTTCACCT
4093	Table 3A	Hs.302981	XM_004720	14745195	hypothetical protein FLJ11000 (FLJ11000), mRNA /cds=(223,780)	1	TTATTTCATATATCTCTGTCCAAAGCCA CACTGAAAACAGAGGACAGAGACA
4094	Table 3A	Hs.239138	XM_004839	13629023	pre-B-cell colony-enhancing factor (PBEF), mRNA /cds=(27,1502)	1	TGCACCTCAAGATTTTAAAGGAGATAA TGTTTTAGAGAGAAATTTCTGCTT
4095	Table 3A	Hs.79022	XM_005162	14746130	GTP-binding protein overexpressed in skeletal muscle (GEM), mRNA /cds=(213,1103)	1	TATGGCCTTCAAGCTCAAGTCCAAAT CCTGCCATGACCTCTCTGTACTCT
4096	Table 3A	Hs.234642	XM_005543	13641011	aquaporin 3 (AQP3), mRNA /cds=(64,942)	1	TCCATCTGTGCATAAGGAGAGGAAAG TTCCAGGGTGTGTATGTTTTCAGG
4097	Table 3A	Hs.124029	XM_005693	14737168	inositol polyphosphate-5-phosphatase, 40kD (INPP5A), mRNA /cds=(101,1192)	1	GGACCATTCGGAGCAGCCCCACAT ACCTCACTGTCTGCTGTCTATGT
4098	Table 3A	Hs.326248	XM_005698	13627052	cDNA: FLJ22071 fls, clone HEP11691 /cds=UNKNOWN	1	TTTGTAAAGCAAGGAGATGGAGGTC GTCTTAAACAGAGAGCTACTGAAT
4099	Table 3A	Hs.287797	XM_005799	13629831	mRNA for FLJ00043 protein, partial cds /cds=(0,4248)	1	ACCACTGTATGTTTACTTCTCACCATT TGAGTTGCCCATCTGTTTTCACA
4100	Table 3A	Hs.1395	XM_005883	14740090	early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA /cds=(338,1768)	1	AAATCTATTCTAAGCGAAAACCACTAA CTGAAGTTCAGATAATGGATGGT
4101	Table 3A	Hs.1908	XM_005980	14748568	proteoglycan 1, secretory granule (PRG1), mRNA /cds=(24,500)	1	TGTTATAAAAGAGGATTTTCCACCTT GACACCAGGCAATGTAGTTAGCA
4102	db mining	Hs.73958	XM_006283	14763523	recombination activating gene 1 (RAG1), mRNA /cds=(124,3255)	1	ACCAGGATGCAATGGATTATTTTGAT TCAGGGGACCTGTATTTCCATGTC
4103	Table 3A	Hs.146589	XM_006741	14783682	mRNA for MOP-3, complete cds /cds=(0,4178)	1	AACAGAAACAGCTATGGCAACAGCAT CACCTCAGAGCATCACCACTTGG
4104	db mining	Hs.99954	XM_006840	14763859	activin A receptor, type IB (ACVR1B), transcript variant 1, mRNA /cds=(39,1556)	1	TATTTAACTCAGTATAGTATTTAAACG AAGCCTAGAAGCAGCGCTGTGGG
4105	Table 3A	Hs.287369	XM_006881	13650909	interleukin 22 (IL22), mRNA /cds=(71,610)	1	AACTAACCCCTTTCCCTGCTAGAAA TAACAATTAGATGCCCCAAAGCGA
4106	literature	Hs.159	XM_006950	13652420	tumor necrosis factor receptor superfamily, member 1A (TNFRSF1A), mRNA /cds=(255,1622)	1	ATAGCAAGCTGAAGTGTCTTAAGGCA GGGGCGAGCAGCGAACAATGGGGC
4107	Table 3A	Hs.159492	XM_007156	12737945	sacsin (SACS) gene, complete cds /cds=(76,11565)	1	TGACAGGTTCACTTCTGAGGTTGCTA TGAGGGTGATGGAATGTACTGCCT
4108	Table 3A	Hs.170133	XM_007189	14755876	forkhead box O1A (rhabdomyosarcoma) (FOXO1A), mRNA /cds=(385,2352)	1	TGTTTAAATGGCTTGGTGTCTTCTTT TCTAATTATGCAGAATAAGCTCT
4109	Table 3A	Hs.87409	XM_007606	14749307	thrombospondin 1 (THBS1), mRNA /cds=(111,3623)	1	TTGAAATTGGTGGCTTCATTCTAGAT GTAGCTTGTGCAGATGTAGCAGGA
4110	Table 3A	Hs.75415	XM_007650	14785208	cDNA: FLJ22810 fls, clone KAJA2933, highly similar to AB021288 mRNA for beta 2-microglobulin /cds=UNKNOWN	1	ACTTCTTATACATTTGATAAGTAAGG CATGGTTGTGGTTAATCTGGTTT
4111	Table 3A	Hs.17279	XM_008062	13627121	tyrosylprotein sulfotransferase 1 (TPST1), mRNA /cds=(81,1193)	1	CATGAAGAAGCAAGCAGAAAACACAC AGGAGGGAAAATCCTGGGATTCTT
4112	Table 3A	Hs.5344	XM_008082	14779810	adaptor-related protein complex 1, gamma 1 subunit (AP1G1), mRNA /cds=(28,2505)	1	GCCTGGCTTGGACCTTGGCATTCCGT TTGAATTCCTTCTAAGTGAACAT
4113	Table 3A	Hs.75703	XM_008449	13652724	small inducible cytokine A4 (homologous to mouse Mip-1b) (SCYA4), mRNA /cds=(108,388)	1	GTCCACTGTCACTGTTTCTCTGCTGT TGCAAATACATGGATAACACATTT
4114	literature	Hs.79241	XM_008738	13646672	B-cell CLL/lymphoma 2 (BCL2), nuclear gene encoding mitochondrial protein, transcript variant alpha, mRNA /cds=(31,750)	1	TTGTGTTGTTGGAAAAAGTCACATTG CCATTAACTTTCCTTGTCTGTCT

Table 8

4115	db mining	Hs.9731	XM_008901	11432998	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta (NFKBIB), mRNA /cds=(0,1016)	1	CAGTAGCGACAGCGACGGCGGAGAC GAGGGCGTGAGTCAGGAGGAGAGAC
4116	db mining	Hs.69747	XM_009101	11425198	fucosyltransferase 1 (galactoside 2-alpha-L-fucosyltransferase, Bombay phenotype included) (FUT1), mRNA /cds=(103,1200)	1	AGCTGCCACGGGTGAGAGAGCAGGA GGTATGAATTAAGTCTACAGCAC
4117	db mining	Hs.46328	XM_009103	14760495	mRNA for alpha(1,2)fucosyltransferase, complete cds /cds=(111,1142)	1	CTTTCCTCAAAATCTTTAAGCCAGAG GCAGCCTTCCTGCCGGAGTGGACA
4118	Table 3A	Hs.84038	XM_009533	14771190	CGI-06 protein (LOC51604), mRNA /cds=(6,1730)	1	TCTGCCTCACGTGCATGTGGTGGC CGTGTGCTACGGCTCCTTCTACAAT
4119	Table 3A	Hs.296585	XM_009574	14771391	nucleolar protein (KKE/D repeat) (NOP58), mRNA /cds=(21,1829)	1	CCATAGCCCAAGGTGACATTTCCAC CCGTGTGCCGTGTCCCAATAAA
4120	Table 3A	Hs.198298	XM_009641	14770741	cDNA FLJ14219 fis, clone NT2RP3003800, highly similar to Rattus norvegicus tyrosine protein kinase pp60-c-src mRNA /cds=(501,1256)	1	GGGGTATCCAGAATTGGTTGTAAATA CTTTGCAATTGTCTGATTAAACA
4121	Table 3A	Hs.334691	XM_009917	13648023	hypothetical protein FLJ22427 (FLJ22427), mRNA /cds=(40,2831)	1	GAGGCTTTGCCTTGCCTGCATATTTG TTTGCTCTTACTACGTTTGGGAA
4122	Table 3A	Hs.278027	XM_009929	11417988	LIM domain kinase 2 (LIMK2), transcript variant 2b, mRNA /cds=(315,2168)	1	GCAAGTGTAGGAGTGGTGGGCGCTGA ACTGGGCCATTGATCAGACTAAATA
4123	Table 3A	Hs.32970	XM_010593	14727775	signaling lymphocytic activation molecule (SLAM), mRNA /cds=(133,1140)	1	TTGCAAAACCCAGAAGCTAAAGATC AATAAACAGAAAGATGATTTTGA
4124	Table 3A	Hs.155595	XM_010897	13637965	neural precursor cell expressed, developmentally down-regulated 5 (NEDD5), mRNA /cds=(258,1343)	1	CCCACACTGCTACACTTCTGATCCCC TTTGGTTTACTACCCAAATCTAA
4125	Table 3A	NA	XM_011080	14738482	T cell activation, increased late expression	1	AAAAGAAGCCCTAATAAACCCACCCGG ATAATAACCCCTGTCTACCATCTTT
4126	Table 3A	Hs.302014	XM_011082	13626304	interleukin 21 (IL21), mRNA /cds=(46,534)	1	GTGAAGATTCTGAGGATCTAACCTG CAGTTGGACACTATGTACATACT
4127	Table 3A	Hs.78687	XM_011714	14749491	neutral sphingomyelinase (N-SMase) activation associated factor (NSMAF), mRNA /cds=(12,2765)	1	AGAAGGATTAGCAGTCTTAGTAAGT TTACTGTGTATAGGAACGGTTTGT
4128	literature	Hs.91390	XM_011844	14739654	poly (ADP-ribose) glycohydrolase (PARG), mRNA /cds=(166,3096)	1	CGGCTGCCTCTCTTGAGACCATCTGC CAATCACAGTACAGTATTCGGGT
4129	Table 3A	Hs.76038	XM_011865	14737830	isopentenyl-diphosphate delta isomerase (IDI1), mRNA /cds=(50,736)	1	CCCAACTGAGGACCAGTGTCTACAGA GTCAGGAAATATTGTAGGGAGAA
4130	Table 3A	Hs.180450	XM_011914	13628205	ribosomal protein S24 (RPS24), transcript variant 1, mRNA /cds=(37,429)	1	CTGGCAAAAGCCGAAGGAGTAAAG GTGCTGCAATGATGTTAGCTGTGGC
4131	Table 3A	Hs.154938	XM_012059	14771044	hypothetical protein MDS025 (MDS025), mRNA /cds=(5,769)	1	TGTTTGCTTGAACAGTTGTGTAAATC ATACAGGATTTTGTGGGTATTGGT
4132	Table 3A	Hs.1051	XM_012328	14750586	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) (GZMB), mRNA /cds=(33,776)	1	GGAGCCAAGTCCAGATTTCACACTGG GAGAGGTGCCAGCAACTGAATAAAT
4133	Table 3A	Hs.251526	XM_012649	13633583	gene for monocyte chemotactic protein-3 (MCP-3) /cds=(0,329)	1	GGATGCTCCTCCCTTCTCTACCTCAT GGGGGTATTGTATTAAGTCTTGCA
4134	db mining	Hs.278454	AF285431	12741752	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 2 (KIR2DL2), mRNA /cds=(14,1060)	1	TAACTTCAATGTAGTTTTCACCTTC AAATAACATGTCTGCCCCCATG
4135	Table 3A	Hs.334437	XM_015180	14778515	hypothetical protein MGC4248 (MGC4248), mRNA /cds=(70,720)	1	GAGTCCTTTTGATTTTAACTTATTCC CCATGTCCCTATACCTTCGTGTGC
4136	Table 3A	Hs.137555	XM_015921	14760439	putative chemokine receptor; GTP-binding protein (HM74), mRNA /cds=(60,1223)	1	TGCACGTTCCTCCTGGTTCTTCGCT TGTGTTCTGTACTTACCAAAAT
4137	Table 3A	Hs.164371	XM_016138	13638510	cDNA FLJ13175 fis, clone NT2RP3003842 /cds=UNKNOWN	1	CAGCTTCAGCTAGGAGTTTGAAGCA AGGACTTTGTACACATTTGTCCC
4138	Table 3A	Hs.323463	XM_016481	14721648	mRNA for KIAA1693 protein, partial cds /cds=(0,2707)	1	AATTGAAAAGTACCAAGAGTGGAAG AAGACCAAGACCCATCATGCCCCA
4139	Table 3A	Hs.15220	XM_016721	14784971	zinc finger protein 106 (ZFP106), mRNA /cds=(335,5986)	1	ACTTCCTAGAGACTTGTCTCTGAGAC AGTTCTTTGCCTTCACTTCCTCGC
4140	Table 3A	Hs.323463	XM_016972	14726508	mRNA for KIAA1693 protein, partial cds /cds=(0,2707)	1	ACAACCTGACCTGTCTCCTTCACATAG TCCATATCACCACAAATCACACAA
4141	Table 3A	Hs.180946	XM_018498	14723691	ribosomal protein L5 pseudogene mRNA, complete cds /cds=UNKNOWN	1	GCTCAGGAGCGGGCTGCTGAGAGCT AAACCCAGCAATTTCTATGATTTT
4142	Literature	Hs.194382	U67093	2072143	ataxia telangiectasia (ATM) gene, complete cds /cds=(795,9965)	1	AAAGAAAGCCAGTATATTGGTTTGAA ATATAGAGATGTGTCCCAATTTC
4143	Literature	Hs.184167	NM_006276	6857827	splicing factor, arginine/serine-rich 7 (35kD) (SFRS7) mRNA /cds=(105,490)	1	ACTGGCAGGCTTATTATCTGTTGCA CTGGTTAGCTTTAATTTGTTCTGT

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4144	Literature	Hs.79037	NM_002156	4504520	Homo sapiens, heat shock 60kD protein 1 (chaperonin), clone MGC:19755 IMAGE:3630225, mRNA, complete cds /cds=(1705,3396)	1	AGCAGCCTTTCTGTGGAGAGTGAGAA TAATTGTGACAAAGTAGAGAAGT
4145	Literature	Hs.206984	U15177	988207	cosmid CRI-JC2015 at D10S289 in 10sp13 /cds=(0,1214)	1	CAACTGTGCTGGCCGGAGGAGAGC AGAGACGCAGTCTGCCAGTGTAG
4146	Literature	Hs.395	XM_002923	13643499	chemokine (C-C motif) receptor 2 (CCR2), mRNA /cds=(39,1163)	1	CACATGGCTAAAGAGGTTTCAGAAA GAAGTGGGGACAGAGCAGAAGCTT
4147	Literature	NA	NC_001807	13959823	mitochondrion, complete genome	1	CCGACATCTGTTCTCTACTTCAGGGT CATAAAGCCTAAATAGCCACACG
4148	Literature	Hs.32017	NM_020645	11034818	ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene /cds=(68,791)	1	CTCATTTGTATTCAAGCCTTTAACAG GAGGGCAAAGAGGTGAGAATGTGT
4149	Literature	Hs.74621	U29185	2885218	prion protein (p27-30) (Creutzfeld-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia) (PRNP), mRNA /cds=(49,810)	1	GCACTGAATCGTTTCATGTAAGAATC CAAAGTGGACACCATTACAGGGTC
4150	Literature	NA	X04948	36891	T-cell receptor alpha-chain HAP05 V(a)3.1/J(a)P	1	GCAGACACTGCTTCTTACTTCTGTGC TACGGATGGGAACAGAGATGACAA
4151	Literature	NA	X92768	1054779	mRNA for T-cell receptor alpha (clone XPBP53)	1	GGGGAACTGGAGGCTTCAAACTAT CTTTGGAGCAGGAACAAGCATTT
4152	Literature	Hs.75064	NM_003192	4507372	tubulin-specific chaperone c (TBCC), mRNA /cds=(23,1063)	1	GGGGAAGGAGGGTGATTATATTGCTT TGTAATGGTTTGTGATCTTGAAA
4153	Literature	Hs.99093	BG179517	12686220	chromosome 19, cosmid R28379 /cds=(0,633)	1	GTACGAATGGGAGGCTCTGCAGACC TGGGGAAGTCCGGACTATCGGGCAG
4154	Literature	Hs.77356	NM_003234	4507456	transferrin receptor (p90, CD71) (TFRC), mRNA /cds=(263,2545)	1	TATCAGACTAGTGACAAGCTCTGGT CTTGAGATGTCTTCTCGTTAAGGA
4155	Literature	Hs.194638	U89387	2253634	polymerase (RNA) II (DNA directed) polypeptide D (POLR2D), mRNA /cds=(30,458)	1	TGACCTCCACCAAAGCCCATATAAGG AGCGGAGTTGTAAAGACTGAAGA
4156	Literature	Hs.15220	NM_022473	14784971	zinc finger protein 106 (ZFP106), mRNA /cds=(335,6988)	1	TTTCTCCGGACTCATCAGTAAACCTG TAGAAGTGTGCGTTTCCAGCCTTT
4157	Literature	Hs.328248	NM_014456	7657448	cDNA: FLJ22071 fis, clone HEP11691 /cds=UNKNOWN	1	TTTGTAAAGCGAAGGAGATGGAGGTC GTCTTAAACCAGAGAGCTACTGAAT
4158	Literature	Hs.182447	BC003394	13097278	heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRPC), transcript variant 1, mRNA /cds=(191,1102)	1	AAAGTTGATACGTGGGTATTTTGTG GAACAGCCTGATGTTTGGGACCT
4159	Literature	Hs.31314	X72841	297903	retinoblastoma-binding protein 7 (RBBP7), mRNA /cds=(287,1564)	1	AACCTTTACACTTTTCTTCCAACAC TTCTTGATTGGCTTTGCGAGAAAT
4160	Literature	Hs.177592	NM_001003	4506668	ribosomal protein, large, P1 (RPLP1),	1	ACAGCCAAGACTTAGGTTACAGGGCA ACGCACTACTGTTTCAAGCTTTGAAT
4161	Literature	Hs.81361	M65028	337450	heterogeneous nuclear ribonucleoprotein A/B (HNRPAB), transcript variant 1, mRNA /cds=(224,1219)	1	ACGTGTCCTGATTTTGCCACAACCTG GATATTGAAGCTATCCAAGCTTTT
4162	Literature	Hs.279939	BC004560	13528728	mitochondrial carrier homolog 1 (MTC1), nuclear gene encoding mitochondrial protein, mRNA /cds=(0,1118)	1	AGCTGTTGATGCTGGTTGGACAGGTT TGAGTCAAATGTACTTTGCTCCA
4163	Literature	Hs.241567	NM_002897	8400725	RNA binding motif, single stranded interacting protein 1 (RBMS1), transcript variant M5SP-2, mRNA /cds=(265,1434)	1	ATAAGGTGCATAAAACCCTTAAATTC ATCTAGTAGCTGTTCCCCGAACA
4164	Literature	NA	BE874440	10323216	NIH_MGC_69 cDNA clone IMAGE:3891187 5'	1	CCAATGACAGCCTACCTATTACCAAG GGCTCCCCTACAACCTCTGAACCTT
4165	Literature	Hs.1074	BC005913	13543508	surfactant, pulmonary-associated protein C (SFTPC), mRNA /cds=(27,620)	1	GACAAACCCTGGAGAAATGGGAGCT TGGGGAGAGGATGGGAGTGGGCAGA
4166	Literature	Hs.56205	BC001860	12804864	insulin induced gene 1 (INSIG1), mRNA /cds=(414,1247)	1	GTGTCACTGCCCAAAGGAGGAGGT TGATGGTGCTTAAACAACATGAAGT
4167	Literature	Hs.77356	BC001188	12654698	transferrin receptor (p90, CD71) (TFRC), mRNA /cds=(263,2545)	1	TCATTGTATAAAGGCTGTTATGTGCAA CAGTGTGGAGATTCTTGTCTGA
4168	Literature	Hs.194638	BC002958	12804200	polymerase (RNA) II (DNA directed) polypeptide D (POLR2D), mRNA /cds=(30,458)	1	TGACCTCCACCAAAGCCCATATAAGG AGCGGAGTTGTAAAGACTGAAGA
4169	Literature	Hs.35406	AA057484	1550124	602675161F1 cDNA, 5' end /clone=IMAGE:4797783 /clone_end=5'	1	TTGGCTTCATTACGAGAGAGAAACAT AACAGAGGCAGTGATGGTTTCAGA
4170	Literature	Hs.74451	X04106	35327	calpain 4, small subunit (30K) (CAPN4), mRNA /cds=(158,984)	1	TTTGTCTATATTCTGCTCCAGCCTG CCAGGCCAGGAGGAAATAAACATG
4171	Literature	Hs.13231	H17596	883836	od15d12.s1 cDNA /clone=IMAGE:1368023	1	AGCACATTGGGAGATACATGATAAAT TTCTATCTGCAGTTGCTATTTGCA
4172	Literature	Hs.74002	U40396	1117914	mRNA for steroid receptor coactivator 1e /cds=(201,4400)	1	GGCCCAGCAGAGAGCCTCCTCAG CAGCTACTGACTGAATAACCACTTT
4173	Literature	NA	X17403	59591	CMV HCMVTRL2 = IRL2	1	AATAATAGATTAGCAGAAGGAATAAT CCGTGCCAGCCAGCTTGTGCTTCT
4174	Literature	NA	X17403	59591	CMV HCMVUL27	1	ACATTCAAAGTTTGAGCGTCTTCAT GTACGCCGTTTTCGCCCTCACGAG

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4175	Literature	NA	X17403	59591	CMV HCMVUL108	1	ACGAACAGAAATCTCAAAAGACGCTG ACCCGATAAGTACCGTCACGGAGA
4176	Literature	NA	X17403	59591	CMV HCMVTRL7 = IRL7	1	AGGAACCAGCAAGTCAACAAAAGACT AACAAAGAAAAACCATCTTGGAAAT
4177	Literature	NA	X17403	59591	CMV HCMVUL33	1	CCAACGACACATCCACAAAATCCCC CATCGACTCTCACAATCGCATCAT
4178	Literature	NA	X17403	59591	CMV HCMVUL123	1	CCTCTGGAGGCAAGAGACCCACCCC TATGGTGACTAGAAGCAAGGCTGAC
4179	Literature	NA	X17403	59591	CMV HCMVUL75 Glycoprotein H	1	GATGTCCGCTACGCGCTATCGGCC ATCATCGGCATCTATCTGCTCTACC
4180	Literature	NA	X17403	59591	CMV HCMVUS28	1	TTCTGGGGCACCAGTTTCGCAAGAA CTACACTGTCTGCTGGCCGAGTTT
4181	Literature	NA	X17403	59591	CMV HCMVUL21	1	GAGATCGACATCGTCATCGACCGAC CTCCGACGCAACCCCTACCCAATCC
4182	Literature	NA	X17403	59591	CMV HCMVUL54	1	CTTTGAGCAGGTTCTCAAGGCTGTAA CTAAGCTGCTGTGCGCCGCTCTTTC
4183	Literature	NA	X17403	59591	CMV HCMVUL83	1	TCTTCTGGGACGCCAACGACATCTAC CGCATCTTCGCCGAATTGGAAGGC
4184	Literature	NA	X17403	59591	CMV HCMVUL109	1	AGAGAACAAACAAACACACGACGCA TGAAACAAACGCTCAACCAACA
4185	Literature	NA	X17403	59591	CMV HCMVUL113; spliced to HCMVUL112	1	GAGAAAAGATTGTGCGATCTCCCCCT GGTTTCCAGCAGACTCTTGGCAGAC
4186	Literature	NA	X17403	59591	CMV HCMVUL122	1	CATCTTCTCCACCAACCAGGTTGGGT TCATGCTGCCTATCTACGACGCG
4187	db mining	Hs.164427	AI307795	4002399	tb28c03.x1 cDNA, 3' end /clone=IMAGE:2055652 /clone_end=3'	-1	TCCCATGTTCCCTTTATTTGCTTTTG GTTCTGCTTTTGGGAGATTTTT
4188	Table 3A	Hs.169168	AA977148	3154594	oq24g08.s1 cDNA, 3' end /clone=IMAGE:1587326 /clone_end=3'	-1	TGGTGCCTTTTGTGTGCGGTGGAG GAGTTCCTAACCTCGGCTTGTTTT
4189	Table 3A	Hs.117333	AI023714	3238758	mRNA for KIAA1093 protein, partial cds /cds=(179,5362)	-1	GCCGTTGGTTGGCTTAAACTTGGTTT CGTCACTTCGGGCACCTTTGGTTTT
4190	Table 3A	NA	AI380955	4190797	tg18b08.x1 cDNA, 3' end /clone=IMAGE:2108111	-1	CTGGCCTCCCTCGCTCTTTAAGCTC CCCTTTGGTTAAAACTGGGTTTT
4191	Table 3A	Hs.93870	AA976045	3151837	cDNA: FLJ22684 fis, clone HSI08202 /cds=UNKNOWN	-1	AAAAGGCCAAGGGTGTGTTGGGGC GTCTGTCTAATGTGGTGGGCTTTTT
4192	Table 3A	Hs.332583	AA788623	2874972	yc77a06.s1 cDNA, 3' end /clone=IMAGE:21844 /clone_end=3'	-1	GCTGTAAATCTCTGCTCATCATCTT CTCTTTTGTTCATAGCCTTTTT
4193	Table 3A	Hs.71433	AA131524	1693030	z131h02.s1 cDNA, 3' end /clone=IMAGE:503571 /clone_end=3'	-1	GTGTGTGCTGGCTGAGAAAGCCACTG TGAATTGATCTCTCTCTGAAGTTT
4194	Table 3A	Hs.309127	AI380687	4190540	tg03e04.x1 cDNA, 3' end /clone=IMAGE:2107710 /clone_end=3'	-1	AATAAGGGTGTGCCCTTTGTTCCCT CACATAATCGTGAAAGGCTGCTTT
4195	Table 3A	Hs.102630	AA808085	2877491	602440867F1 cDNA, 5' end /clone=IMAGE:4556591 /clone_end=5'	-1	TTCTCAGTCCCTGTTTCATACCATCT CTGACCCCAACATCAGACTGATTT
4196	Table 3A	Hs.134473	AI074016	3400660	oy66g02.x1 cDNA, 3' end /clone=IMAGE:1670834 /clone_end=3'	-1	GACCACAGATATGCACCTCTTACATT AACCTCAGCCTTGATGTATCATT
4197	Table 3A	Hs.158653	AI370965	4149718	ta29b11.x1 cDNA, 3' end /clone=IMAGE:2045469 /clone_end=3'	-1	CCCCCTGTTATGAAAAGGGTTAAACT TGAACCCACCCATTTTAAAAATTT
4198	Table 3A	Hs.243029	AA424812	2106917	UI-H-BI4-aow-c-10-0-UI.s1 cDNA, 3' end /clone=IMAGE:3086226 /clone_end=3'	-1	TTATAGCTACCAGAAGCCACCAGGGC CTTAGCCAGCAGTAGAACCTCT
4199	Table 3A	Hs.188777	AA432364	2114747	zw76a09.s1 cDNA, 3' end /clone=IMAGE:782104 /clone_end=3'	-1	GATCAGTAGACACACCCCTCAATGCT GCGAAGAAAATGAAGGCCACTCTT
4200	Table 3A	Hs.132237	AI031656	3249868	ow48e08.x1 cDNA, 3' end /clone=IMAGE:1650082 /clone_end=3'	-1	AGCAGACAATGGACAACCTGTAGTTTT TGAATTGACTTCTATAGCCATCTT
4201	db mining	Hs.123445	AA813728	2882413	602623674F1 cDNA, 5' end /clone=IMAGE:4748515 /clone_end=5'	-1	TCCACCACAGTGCATGATAATTCCGA CAGAACGGCCTTTTATTTGTACCT
4202	Table 3A	Hs.143049	AI126688	3595202	Homo sapiens, Similar to DKFZP727C091 protein, clone MGC:10677 IMAGE:3948445, mRNA, complete cds /cds=(79,1530)	-1	TGTTCTCTGAAGTGTCTGGATGAACC GGTCAACGGCACTCATACCTT
4203	Table 3A	Hs.108327	AA701667	2704832	damage-specific DNA binding protein 1 (127kD) (DDB1), mRNA /cds=(109,3531)	-1	GCTTCACTCTGCTTTCTGTATAAAGG GCAGTCTGGGTACGCAAGACTT
4204	Table 3A	Hs.270264	AA613224	2484262	no19d06.s1 cDNA, 3' end /clone=IMAGE:1101131 /clone_end=3'	-1	AGCAAAGACCAAATTCCTTGGGAA GTGTGGGAGCAGGCTGACATTATT
4205	Table 3A	Hs.158976	AI380390	4190243	UI-H-BI2-ahi-a-03-0-UI.s1 cDNA, 3' end /clone=IMAGE:2726692 /clone_end=3'	-1	GTCTTTGATAGCAGAACAGAGGCT CTGTGATCCTCTGGACCTCAGATT
4206	Table 3A	Hs.204214	AA826926	2900923	EST389900 cDNA	-1	TCCACGACATGGTACAGCTCTTCACT TTTTCAAGCTTTTAAATGTCCATT
4207	Table 3A	Hs.326392	AA974839	3150631	son of sevenless (Drosophila) homolog 1 (SOS1), mRNA /cds=(0,3998)	-1	GACAAGGCAATGCTACTGATCACTG AGGATAATGGTGAAGGACTTTTGT

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4208	Table 3A	Hs.53542	AI084224	3422647	chorea-acanthocytosis (CHAC) mRNA, complete cds /cds=(260,9784)	-1	TCAATAGTTGTGAAATTCCTCTCAGGCTCCTTAAACCCCTCGCTTTGTTGT
4209	Table 3A	Hs.173334	AA284232	1928532	ELL-RELATED RNA POLYMERASE II, ELONGATION FACTOR (ELL2), mRNA /cds=(0,1922)	-1	AGGCTTACGTTTATCCAAAAGCATTTCACCTTGCACATTACTGTTGTTGT
4210	db mining	Hs.86437	AI300700	3960046	602411368F1 cDNA, 5' end /clone=IMAGE:4540096 /clone_end=5'	-1	ACAAGCATTAGATCATAACATGGTA AAGCCTATTACCGCCAATGTTGT
4211	db mining	Hs.61558	AI220970	3803173	hz63d07.x1 cDNA, 3' end /clone=IMAGE:3212653 /clone_end=3'	-1	TGTTTTGGCATAGAGCTTTACTTAAAA TGCTGCTTCATTTTACACATTGT
4212	Table 3A	Hs.239489	AA639798	2563575	TIA1 cytotoxic granule-associated RNA-binding protein (TIA1), transcript variant 2, mRNA /cds=(185,1345)	-1	TGGAGCTCAATTCATGCAGTTGTGCTGATATTTCAATTAAGTCACTGTGT
4213	Table 3A	Hs.228795	AI094726	3433702	qa08f05.x1 cDNA, 3' end /clone=IMAGE:1686177 /clone_end=3'	-1	TTTCCCTTGGCCTGAGTTTTTATAAA ATTTCCATTAATTGGGGCAGTGT
4214	db mining	Hs.62699	AA740964	2779556	EST386140 cDNA	-1	TGCAGCTAAATTCGAAGCTTTTGGTC TATATTGTTAATTGCCATTGCTGT
4215	Table 3A	Hs.124675	AA858297	2946599	ob13b08.s1 cDNA, 3' end /clone=IMAGE:1323543 /clone_end=3'	-1	GGATTGGGAAGATGCTTTTCAGAAATA TGGCATAGGTTTTTGTGCAAAATGT
4216	Table 3A	NA	AI281442	3919675	cDNA clone IMAGE:1967452 3'	-1	AAAGAAAAATTCAGCCTGAACCCCTAC CTTATATAAACAGGTTAATTGGGT
4217	Table 3A	Hs.228817	AI199388	3751994	qs75e05.x1 cDNA, 3' end /clone=IMAGE:1943936 /clone_end=3'	-1	TGTAAGTCCCATGCCCGAATTTGGAG ATTTGGGTTTTTCTTTTCAGGGGT
4218	Table 3A	Hs.291003	AA504269	2240429	hypothetical protein MGC4707 (MGC4707), mRNA /cds=(72,1067)	-1	CGGATTCCAAATTACTTAAAGCCTTTA TGGGAACACGGTAGATTGTAGGT
4219	Table 3A	Hs.299416	AA132448	1694015	zo20a03.s1 cDNA, 3' end /clone=IMAGE:587404 /clone_end=3'	-1	GCCTTCTGGCCTCTGAGGCAAGGT CAGTGATACTGATGGGAGGTAGGT
4220	Table 3A	Hs.6733	AI057025	3330814	phosphoinositide-specific phospholipase C PLC-epsilon mRNA, complete cds /cds=(235,7146)	-1	GCTCAAGATCACCTCTTTGTCATCTT GAACAATGTTTTCTCTCTAGGT
4221	db mining	Hs.177712	AA251808	1886786	zs09c03.s1 cDNA, 3' end /clone=IMAGE:684676 /clone_end=3'	-1	TGTTTCCACTTCATGGGATATGACTC CATCAATGAAATGGGTCCAGT
4222	Table 3A	Hs.133175	AI051673	3307207	oy77g06.x1 cDNA, 3' end /clone=IMAGE:1671898 /clone_end=3'	-1	TTGTGATTGTAATCATGTATGTACAA ATGCCATGAAATTAAGCCAGT
4223	Table 3A	Hs.203041	AI271437	3890604	602417270F1 cDNA, 5' end /clone=IMAGE:4536737 /clone_end=5'	-1	TTTCCCTATGCACCTTCCAGTCTTTG GCAGGACATGATTATGGACAGT
4224	Table 3A	Hs.56205	AA846378	2932518	insulin induced gene 1 (INSIG1), mRNA /cds=(414,1247)	-1	TGCACTCTACCAGATTGAACATCTA GTGAGGTTACATTTCATACTAAGT
4225	Table 3A	NA	AA873734	2969856	Vanin 2	-1	TCACTGCAGGGAATCTCCTAGGAAG CGGATAAATCTGGCAATTGGAAGT
4226	Table 3A	NA	AA482019	2209697	cDNA clone IMAGE:746046 3'	-1	ACCACCAGCTATTTGTAATTCCTTCTT CTAAGGCATAGTAAAACTTGCT
4227	db mining	Hs.182594	AA806247	2875516	cc21f01.s1 cDNA, 3' end /clone=IMAGE:1341529	-1	TCGCTTTCTAACTGATTCCATTCCAC CATGTGAGATACTCTGGGCTGCT
4228	Table 3A	Hs.210727	AI075288	3401879	oy69h10.x1 cDNA, 3' end /clone=IMAGE:1671139 /clone_end=3'	-1	CAGCAATGAGGGGATATTTTGTATGA GCTGGAATATCCAATTGAACAGCT
4229	Table 3A	Hs.252300	AI383340	4196121	tc76g05.x1 cDNA, 3' end /clone=IMAGE:2070584 /clone_end=3'	-1	CCCCCTAAGTTAAAGCTCTGTCTTT TTGGGGTTTGCCCTATGTAAGCT
4230	Table 3A	Hs.191958	AI347054	4084260	immunoglobulin superfamily receptor translocation associated 2 (IRTA2), mRNA /cds=(158,3091)	-1	GAAGCCTCTACTCTTGAGTCTCTTTC ATTACTGGGATGTAAATGTTCT
4231	Table 3A	Hs.283410	AI253134	3849663	602635144F1 cDNA, 5' end /clone=IMAGE:4780090 /clone_end=5'	-1	ACACTTGATCTCTTCTTATTTCTCTC AGAAAACCTGTAGGATTGTGCCT
4232	Table 3A	Hs.44189	AI381839	4113460	yz99f01.s1 cDNA, 3' end /clone=IMAGE:291193 /clone_end=3'	-1	AGTAGATATTTTCCCGGTGTAAGTGG AATACCTTTTCAGAAAGCCAAACCT
4233	Table 3A	Hs.148288	AA908367	3047772	og76c11.s1 cDNA, 3' end /clone=IMAGE:1454228 /clone_end=3'	-1	AATCCAATCCTGGTATATAGCACCT GGTATTATGGGTACCAAAAACCT
4234	Table 3A	Hs.143534	AI095189	3434165	602466053F1 cDNA, 5' end /clone=IMAGE:4594260 /clone_end=5'	-1	ACTGCTCCAAATATCAACCCCATGTA GGCAGGATGTTTGATCTTGGTACT
4235	Table 3A	Hs.23349	AI357493	4109114	nab70e03.x1 cDNA, 3' end /clone=IMAGE:3273292 /clone_end=3'	-1	TGTTGTTGGATACGTACTTAACTGGT ATGCATCCCATGTCTTTGGTACT
4236	db mining	Hs.292235	AI057035	3330824	oy75b11.x1 cDNA, 3' end /clone=IMAGE:1671645	-1	TTAGGATTGCTCAGTTTCATCAAGGT TTGAAGGATAGGCAGGCTCTCACT
4237	Table 3A	Hs.337986	AA101212	1647866	Homo sapiens, clone MGC:17431 IMAGE:2984883, mRNA, complete cds /cds=(1336,1494)	-1	GGCCAGTCTCTGTGTGTCTTAATCCC TTGCTCTTCAATTAAGCAAACT
4238	Table 3A	Hs.60088	AA004799	1446296	hypothetical protein MGC11314 (MGC11314), mRNA /cds=(221,673)	-1	GCAATCCCGTCACTCCCTCCCTAAT CTGAGCATCACTCAAGCTCTTAT

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4239	db mining	Hs.177376	AA744590	2783354	zb85a08.s1 cDNA, 3' end /clone=IMAGE:310354 /clone_end=3'	-1	CTGAATGCCAAGAGCTTCAAGAGTGT GTGTAAATAAAGCCACACCTTTAT
4240	Table 3A	Hs.163787	AA627122	2540166	nq70g02.s1 cDNA, 3' end /clone=IMAGE:1157714 /clone_end=3'	-1	CCCGAGGAGGAAGACGAATCGTTAA ACATCTGAAAGGGTCAGGTGAGTAT
4241	Table 3A	Hs.332992	AA760848	2809778	nz14f06.s1 cDNA, 3' end /clone=IMAGE:1287779 /clone_end=3'	-1	CAAACCTGTTCTGAAGACAATTTCCA AGGTTGTCAGCCATGTCCACATAT
4242	Table 3A	Hs.129572	AA746320	2786306	ob08f01.s1 cDNA, 3' end /clone=IMAGE:1323097 /clone_end=3'	-1	TCAGGTTTCGTGTTAAACGCTGTATGT TAACATGACTGGAATTCGTGAT
4243	Table 3A	Hs.233383	AA745714	2785700	RC2-CT0434-310700-013-c08 cDNA	-1	ATGGAGATCCAGAGACGTTGGTTTTTC AAATGGAGCAAACAGCACTGTGAT
4244	Table 3A	Hs.156601	AI146787	3674469	qb83f02.x1 cDNA, 3' end /clone=IMAGE:1706715 /clone_end=3'	-1	AGCTTTAGGCTGAGGGCATGGAAACT GTTACGCTTTTCTTTTATGTGAT
4245	Table 3A	Hs.273775	AA527312	2269381	ng36a08.s1 cDNA, 3' end /clone=IMAGE:936854 /clone_end=3'	-1	TCACTCCAGAATAGAAATTAGAGTAT AGGTAGGCAGTCCAACTCTGCAT
4246	Table 3A	Hs.159316	AI380278	4190131	cDNA: FLJ21572 fls, clone COL06651 /cds=UNKNOWN	-1	TCAGATGCCACACTTATGAGACCCTC ATCCTTCTGCTCACTCTCTTCCAT
4247	Table 3A	Hs.159424	AI380255	4190108	602589478F1 cDNA, 5' end /clone=IMAGE:4723722 /clone_end=5'	-1	CCCTGCCTTTACCTCTCTACTTGTAG TGTTCTTCAGAGCCTGCTCCCAT
4248	Table 3A	Hs.114931	AA702108	2705221	zi85e01.s1 cDNA, 3' end /clone=IMAGE:447576 /clone_end=3'	-1	CAAAACAAGATGTGCCAGGGCCTGG GGGATGGGATAATTCAGAGAGAAAT
4249	Table 3A	Hs.179779	AI004582	3214092	ribosomal protein L37 (RPL37), mRNA /cds=(28,321)	-1	ACCCAAGAGGGCAGCAGTTGTGTCA TCCAGTTCATCTTAAGAATTTCAAT
4250	Table 3A	Hs.100555	AI352690	4089896	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 18 (Myc-regulated) (DDX18), mRNA /cds=(71,2083)	-1	GGGGTAGGAAGAGGATGGAATTGAG ATGTTTGAGCCTCATTTACATCAAT
4251	Table 3A	Hs.157213	AI351144	4088350	ql23f10.x1 cDNA, 3' end /clone=IMAGE:1948459 /clone_end=3'	-1	GCTCTCTGATGCTGGTGGCTGTTCCC CCAGAATGGAAGCATTGATTAAT
4252	Table 3A	Hs.77399	AI337347	4074274	caudal type homeo box transcription factor 2 (CDX2), mRNA /cds=(360,1301)	-1	GGGGAGAAGTGATATGGTGAAGGGA AGTGGGGAGTATTTGAACACAGTTG
4253	Table 3A	Hs.128630	AI222805	3805008	qp39c07.x1 cDNA, 3' end /clone=IMAGE:1925388 /clone_end=3'	-1	CACCATGCCTCACTTTTAGCGCAGTG TGATCTACACAAATTGCCCTGTG
4254	Table 3A	Hs.270341	AI270478	3889643	602307338F1 cDNA, 5' end /clone=IMAGE:4398848 /clone_end=5'	-1	TATGGTTTTTAGGCTATGCAGATATTC TGTTGGTTTTTGAGACAGCTCTG
4255	Table 3A	Hs.190229	AA582958	2360318	nn80d08.s1 cDNA, 3' end /clone=IMAGE:1090191 /clone_end=3'	-1	CCTTCCTTTCTAAGGCATAAGTGCGA CGTTCGCTGCTGTGCGTGGAACTG
4256	Table 3A	Hs.170333	AI373163	4153029	qz13a07.x1 cDNA, 3' end /clone=IMAGE:2021364 /clone_end=3'	-1	GAGAGGAAGGCAGACAGGCAGCCAT TTTAAGAGAGAAGAGCCAGACAATG
4257	Table 3A	Hs.158289	AI199223	3751829	qi47c06.x1 cDNA, 3' end /clone=IMAGE:1859626 /clone_end=3'	-1	GTTATCAAAGGTGGAATCGGAAACAC CAGGCTCTAGTGCACGGGAAATG
4258	Table 3A	Hs.29282	AA748714	2788672	mitogen-activated protein kinase kinase kinase 3 (MAP3K3), mRNA /cds=(83,1863)	-1	AAATGTGCCTATTGCTAGAGCTCCTC CCTCTCAACACCCAGTTTCCTTGG
4259	Table 3A	Hs.230752	AI025427	3241040	ow27g06.s1 cDNA, 3' end /clone=IMAGE:1648090 /clone_end=3'	-1	CAATCGTCTTATCTCTACAGAGAGAA GTGGAAAATTTCTTTTCAAGGGGG
4260	Table 3A	Hs.131580	AI024984	3240597	ov39d11.x1 cDNA, 3' end /clone=IMAGE:1639701 /clone_end=3'	-1	CTATGGAAGGCAGTGGTGGGGCAAA AGTCCGGTTTTTACGCTTTGAGGGG
4261	Table 3A	Hs.98308	AA418743	2080544	mRNA for KIAA1862 protein, partial cds /cds=(0,1874)	-1	GTCTGATCCTTAGACCGTCTCATCAC AGCAACCCTAACTGCAGAGCAGGG
4262	Table 3A	Hs.337307	AA719537	2732636	zh40g12.s1 cDNA, 3' end /clone=IMAGE:414598 /clone_end=3'	-1	AATGGTAAGAAATGCCTTGTGTGGGT GGCCCTCCAGTCCCAGTCCAGGG
4263	Table 3A	NA	AA136584	1697794	fetal retina 937202 cDNA clone IMAGE:565899 3'	-1	AACATATCCAGGGAGGACAAACTCTG GGCTGGACAATGTATCCACAAGGG
4264	Table 3A	Hs.339990	AI263141	3871344	qw90c01.x1 cDNA, 3' end /clone=IMAGE:1998336 /clone_end=3'	-1	GCCCATGGTCTAGAAATTAATTCGCC TAAAAATTTTGAATAGGGGCGG
4265	Table 3A	Hs.309122	AI380449	4190302	tg02f12.x1 cDNA, 3' end /clone=IMAGE:2107631 /clone_end=3'	-1	GCCAACTGCTTGAAGGCCCAACACAA CCCATCTGGTCTCTTGAATAAAGG
4266	Table 3A	Hs.280535	AA719103	2732202	zh33d10.s1 cDNA, 3' end /clone=IMAGE:413875 /clone_end=3'	-1	GAGCCCTTAAATTAATGTATCTCCT CTAAAGTGTGATTTAATGGCTGCG
4267	Table 3A	Hs.188886	AA576947	2354421	nm82b04.s1 cDNA, 3' end /clone=IMAGE:1074703 /clone_end=3'	-1	CTTTTGCTGGAGACTCATCGCTTGG GAAGTGCAATTGCTTCGTGCTCCG
4268	Table 3A	Hs.130232	AI089359	3428418	qb05h03.x1 cDNA, 3' end /clone=IMAGE:1695413 /clone_end=3'	-1	CCCAGTTCACAGTAGAGAGGTGGAG CTTAGTACTTCTGCTGCCCATTAG
4269	Table 3A	Hs.44628	AI384128	4196909	EST389740 cDNA	-1	CTGGGCTGTAGGTACTGCTGGGTCA CTGTTGCTATAATGGTCACTGGAG

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4270	db mining	Hs.164284	AI434146	4294137	ti36g07.x1 cDNA, 3' end /clone=IMAGE:2132604 /clone_end=3'	-1	CTTTAGATGTCCACGTCCTCCTCAAG CACATGAAAGAGCTCACACTGGAG
4271	Table 3A	Hs.173720	AA534537	2278790	nf80h10.s1 cDNA, 3' end /clone=IMAGE:926275 /clone_end=3'	-1	GACTCTGGAACCTCGAGCGTGTGGCT GCTGCCCGGACAGCTGAATCTAGAG
4272	Table 3A	Hs.120891	AA677952	2658474	z14a06.s1 cDNA, 3' end /clone=IMAGE:430738 /clone_end=3'	-1	CCTTAGAGATCGTGACCTCCTCGCT TGCCCTCCCTGGTGGGCTCTTTTCAG
4273	Table 3A	Hs.142838	AI299573	3959158	nucleolar protein interacting with the FHA domain of pK-67 (NIFK), mRNA /cds=(54,935)	-1	AGAGTGAGAGGGCAGTTCCAGTTTTA GCACAGATTGTATTGTGTTCAG
4274	Table 3A	Hs.8724	AI298509	3958245	serine threonine protein kinase (NDR), mRNA /cds=(595,1992)	-1	TCTCAAGAGAGAACGCCACAGCAGA GAGACCCAATCCGCCTAAGTTGCAG
4275	db mining	Hs.204873	AI086035	3424458	oy70h04.x1 cDNA, 3' end /clone=IMAGE:1671223 /clone_end=3'	-1	AGGTTTGGGGAGGGGTCCCAGTCTG CGATCCTTTCTCCCTCTTCGTGCAG
4276	Table 3A	Hs.323950	AA916990	3056382	zinc finger protein 6 (CMPX1) (ZNF6), mRNA /cds=(1285,3361)	-1	CCTCAGCTTCCAACCTCTGATTCAGG ACAGGATGGAAACCTTTGGACAG
4277	Table 3A	Hs.144114	AI074020	3400684	oy68g06.x1 cDNA, 3' end /clone=IMAGE:1670842 /clone_end=3'	-1	AATCCCTTGATACCATGTATACAAATG AGACAAGTGAGCTTGACATTCAGG
4278	Table 3A	Hs.235042	AI076222	3405400	oy65b09.x1 cDNA, 3' end /clone=IMAGE:1670681 /clone_end=3'	-1	GCTACAGCCCGGAACACAAAAGAAG ACACCCATGCAATATACATTAAAAAG
4279	Table 3A	Hs.158975	AI380388	4190241	tf98a03.x1 cDNA, 3' end /clone=IMAGE:2107084 /clone_end=3'	-1	ATTAACCCCTTTATTGCCCTAGCCAGT GGGGTGGGAGGGAGAGATTGTTTC
4280	Table 3A	NA	AI361642	4113263	qy66d04.x1 cDNA, 3' end /clone=IMAGE:2018887	-1	GTTATCCTTAGGCCAGGTCTCCACC TTTGAGCCCGACAAAACAGAGTCT
4281	Table 3A	Hs.34549	AI123826	3539592	602620663F1 cDNA, 5' end /clone=IMAGE:4746422 /clone_end=5'	-1	TGCTGCTACAGTTGCAAAACACTGGA GCTAGAGAAAATAAGTACTGATC
4282	Table 3A	Hs.185062	AI085568	3423991	oy68b05.x1 cDNA, 3' end /clone=IMAGE:1670961 /clone_end=3'	-1	CGAGAGTCTTGCTGAGCCAGGACTT GAGTGCCCTCGAAGTTTCAATGATC
4283	Table 3A	Hs.180201	AA516406	2253768	hypothetical protein FLJ20671 (FLJ20671), mRNA /cds=(72,494)	-1	ATCAGGAGAGGGAGATAATTAGTTGC TTCTCTCTCACACTGTTTGAATC
4284	Table 3A	Hs.54452	AI041828	3281022	zinc finger protein, subfamily 1A, 1 (Ikars) (ZNFN1A1), mRNA /cds=(168,1727)	-1	TTGCCCTTCTCTCACTGCCTTTTAT AGCCAATATCAATGTCTCTTTGC
4285	db mining	Hs.206654	AA705316	2715234	EST368531 cDNA	-1	ATCCCTATTGCCAGACACATCATTCT CTCCATCCAGAAAGCCAACTTTGC
4286	Table 3A	Hs.147040	AI187423	3738061	qf31d04.x1 cDNA, 3' end /clone=IMAGE:1751623 /clone_end=3'	-1	CTCTCTTCATCTTCTGATTGGGATTGT GTCCAGTCTCTGCTTCTCTGTC
4287	Table 3A	Hs.105230	AA489227	2218829	aa57f07.s1 cDNA, 3' end /clone=IMAGE:825061 /clone_end=3'	-1	GAGGGTTCTAGCAACTTAATCCCAT AGCATGTTAGCTGAAGACTACTGTC
4288	db mining	Hs.309108	AI378046	4187899	te67h12.x1 cDNA, 3' end /clone=IMAGE:2091815 /clone_end=3'	-1	GTCCCAAGGGTCAGTATATTGGAGGA AAGTAAAGGAGTGAATCAGACTGC
4289	Table 3A	Hs.209203	AI343473	4080679	tb97a08.x1 cDNA, 3' end /clone=IMAGE:2062262 /clone_end=3'	-1	CTGGAATTACTAATGTGGAGGTGATC TGAGAACTGGGAACAAAGTAGGGC
4290	Table 3A	Hs.158966	AI380236	4190089	tf94b10.x1 cDNA, 3' end /clone=IMAGE:2106907 /clone_end=3'	-1	TCCAGGGACTGACAAGAGTGAGTGG TGTCACCTAAAGAGAAACTCAGGC
4291	Table 3A	Hs.50477	AA923567	3070876	Rab27a mRNA, complete cds /cds=(245,910)	-1	CAGAACTCCATAGACAGCCTCACTTT GTGCTCGGGGGCCTGTCCCAAGGC
4292	Table 3A	Hs.133230	AA984890	3163415	Homo sapiens, ribosomal protein S15, clone MGC:2295 (IMAGE:3507983, mRNA, complete cds /cds=(14,451)	-1	GCACITCTCCCGTTTCATCCCTCTCA AGTAATGGCTCAGCTAATAAAGGC
4293	Table 3A	Hs.165051	AI248204	3843601	qh64h11.x1 cDNA, 3' end /clone=IMAGE:1849509 /clone_end=3'	-1	TCCATCTCCTTTCTACTGTAGCGGAG ACTACAAGTCCAGGATGCCCGGC
4294	Table 3A	NA	AA883244	2669135	schizo brain S11 cDNA clone IMAGE:971252 3'	-1	CCACATTCTTGCTGTCCACATCCTGC TGGGTGAAATTGTGTGAAGTAGC
4295	Table 3A	NA	AA826572	2898398	cDNA clone IMAGE:1416447 3'	-1	TGACTGTCTTGTTAATTTCTTCTTG TTTTACTTCTGGAACTGGGAGC
4296	Table 3A	Hs.11637	AI275205	3897479	602388093F1 cDNA, 5' end /clone=IMAGE:4517086 /clone_end=5'	-1	TGACTTTCAAGGAATGTGAGCATTGAC CTCTCCTTGCCACTGTTACTCAGC
4297	Table 3A	Hs.21812	AI131018	3601034	AL562895 cDNA /clone=CS0DC021YO20-(3-prime)	-1	AAGTTTGTGACGACATTCCTGAGTG TACGATATTGACCTGTAGCCAGC
4298	Table 3A	Hs.21812	AI888714	5593878	AL562895 cDNA /clone=CS0DC021YO20-(3-prime)	-1	AAGTTTGTGACGACATTCCTGAGTG TACGATATTGACCTGTAGCCAGC
4299	Table 3A	Hs.59459	AA889552	3016431	ak20d12.s1 cDNA, 3' end /clone=IMAGE:1406519 /clone_end=3'	-1	ACCAGACTTCAGGAAGAATAAAGGTC GCCAACTCAATAAAACCACCAAGC
4300	Table 3A	Hs.230805	AI087055	3425478	oy70c09.x1 cDNA, 3' end /clone=IMAGE:1671184 /clone_end=3'	-1	ACTTGCCACATAAACAGTTCCATCAT AAAAACTCTTCCCTTCTTGTTC



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4301	Table 3A	Hs.125608	AJ380443	4190296	tg02f04.x1 cDNA, 3' end /clone=IMAGE:2107615 /clone_end=3'	-1	GCTTCCTTGAACCAACCCAGAAATCCA CTCAAAATTTGGGGATTGTGATTCC
4302	Table 3A	Hs.229385	AJ354231	4094384	qv12c04.x1 cDNA, 3' end /clone=IMAGE:1981350 /clone_end=3'	-1	GGGGGTGATGGGTTAATTAATAAGT CCATTCTCTGGGATTGAGGGGGCC
4303	Table 3A	Hs.330928	AJ371227	4149980	601659234R1 cDNA, 3' end /clone=IMAGE:3895641 /clone_end=3'	-1	ATGCCCTCGTCTAGAAATTAATTC CCTAAAAATCTTTGAAATAGGGCC
4304	db mining	Hs.141153	AI139639	3645611	bx43b11.x1 cDNA, 3' end /clone=IMAGE:2272317 /clone_end=3'	-1	TCAAACCTAAGACCAGGGTTGAAAAC ATGGCCAGGGACCACTTCAGGCC
4305	Table 3A	Hs.134342	AJ363001	4114622	mRNA for LanC-like protein 2 (land2 gene) /cds=(186,1538)	-1	GACGCGCACACACCTTGAGTGACAG CGACCTCTTCTGTACAGGTTTCCC
4306	Table 3A	Hs.226755	AA909983	3049273	RC1-UT0033-250800-022-h02 cDNA	-1	ATCCAAGCTTTAATCTGCCATCTCA GAATGGTGATAAACCAATTTCTCCC
4307	Table 3A	Hs.158894	AJ378457	4188310	tc79d10.x1 cDNA, 3' end /clone=IMAGE:2072371 /clone_end=3'	-1	TACTTCATTGCTATTGTAAACCAAAAA TAAATTTGAAGCCCCCTGCCCC
4308	Table 3A	Hs.127327	AI084064	3422487	EST390862 cDNA	-1	CTTCATCACTCAGAAACAGAAAAGG CTTCAGAAGGAGCGGCCATGCCCC
4309	Table 3A	Hs.295945	AW081320	6036472	xc30f12.x1 cDNA, 3' end /clone=IMAGE:2585807 /clone_end=3'	-1	AGAACCCGTATTTCATAAAAATTTAGAC CAAAAGGAAGGAATCGAACCCCC
4310	Table 3A	Hs.143410	AA825245	2898544	oe59g09.s1 cDNA, 3' end /clone=IMAGE:1415968 /clone_end=3'	-1	TTTTCTATTTTCATCTGTCTTTTCAC TGCAGAGCGCACCTCCCGGACCC
4311	db mining	Hs.228874	AI356505	4108126	qz22b04.x1 cDNA, 3' end /clone=IMAGE:2027599 /clone_end=3'	-1	AGACTGAAGGGTTGAAAGACCCGT AGACGCTCCTTTCTCTTTTAGACC
4312	Table 3A	NA	AI364936	4124625	qz23c12.x1 cDNA, 3' end /clone=IMAGE:2027734	-1	CTCTGCGGCCCTAGAGTTAATCCCAT CAGCCGAGGTGAGGCACCTGTTAC
4313	Table 3A	Hs.125892	AI378032	4187885	te67g08.x1 cDNA, 3' end /clone=IMAGE:2091806 /clone_end=3'	-1	CCAATTCGCGAGTACAGAGCATTTCAG CAGGTAGTGGTGACCTGGGTGAC
4314	Table 3A	Hs.158943	AJ379953	4189806	tc81a07.x1 cDNA, 3' end /clone=IMAGE:2072532 /clone_end=3'	-1	GGCTCCAGCCACCGGCAGCTCTGAA AGAGTTTGAAAGATTTATTGTTAC
4315	Table 3A	Hs.108124	AI362793	4114414	cDNA: FLJ23088 fis, clone LNG07026 /cds=UNKNOWN	-1	GCTCGCTACCAGAAATCTACCGATA AGCCCATCGTGACTCAAAACTCAC
4316	db mining	Hs.129332	AA992299	3179055	ot53b06.s1 cDNA, 3' end /clone=IMAGE:1620467 /clone_end=3'	-1	CAGTGGAAACACAAACCCAGCCATGAAA AGGAAGAAGCTCTGACTCAGGCAC
4317	Table 3A	NA	AI318342	4034222	ta73c09.x1 3' end /clone=IMAGE:2049712	-1	CATCTCATGCGTAGCACTGATCAATG TGCCCCAGGGTGTGTATTGCCAC
4318	Table 3A	Hs.157447	AI028478	3245787	EST388739 cDNA	-1	CAATCAGAGCGCGAGTTACAAGCGC GGTGGAGTGGGGAAGCGAATGAAAC
4319	Table 3A	Hs.205175	AA885473	2994550	am10c12.s1 cDNA, 3' end /clone=IMAGE:1466422 /clone_end=3'	-1	GACATTGCACATTTTTGAACCTGTCT ACAGAGCCTGGGTTGGTCACAAAC
4320	Table 3A	NA	AI370412	4149165	cDNA clone IMAGE:1987587 3'	-1	ACACTGGCAGAGTCCAGAAAAGCAG CAGAAAGAAAAATTCAGAGCAAAAAC
4321	Table 3A	Hs.132594	AI346336	4083542	qp50b04.x1 cDNA, 3' end /clone=IMAGE:1926415 /clone_end=3'	-1	TTTAACGTGCTTCTGAGACAGCCACC ACCGAAAGGCACCTTTAGCGGTTA
4322	Table 3A	Hs.50252	AA984245	3162770	mitochondrial ribosomal protein L32 (MRPL32), mRNA /cds=(46,612)	-1	TCAGCCAACCTGAATCTGGTATCTTT ACTTAAACACAGCAGTTGTAGTTA
4323	Table 3A	NA	AA744774	2783538	cDNA clone IMAGE:1283731 3'	-1	AAAAGGAGACGATGTGAGGCAACA CTCCTTACCCTGCCATTTCTAGTTA
4324	db mining	Hs.15200	AW190635	6465115	EST379783 cDNA	-1	TCACAATCAGTCTCAGATCCCAGCA GCAGAGAGTGAATTGTATGTTGTA
4325	Table 3A	Hs.276766	AI380791	4180844	tg04b12.x1 cDNA, 3' end /clone=IMAGE:2107775 /clone_end=3'	-1	TAAAGACAATGCTATTAAAGTGACACA GTTCCAGGGGCGCTTGTGGCTCTA
4326	Table 3A	NA	AA573427	2347955	cDNA clone IMAGE:1028913 3'	-1	GAAGACCAAGTCTACGCCTGCAAGCT CTCAGACCGGGAACATCCACTCTA
4327	Table 3A	Hs.127557	AA953398	3117543	on63h10.s1 cDNA, 3' end /clone=IMAGE:1561411 /clone_end=3'	-1	CTGAAGAGACAGAAAGGGAGACACC AAAACCTTAATGGCAGTTATTCTTA
4328	Table 3A	Hs.124391	AA831838	2904937	oc85h06.s1 cDNA, 3' end /clone=IMAGE:1356539 /clone_end=3'	-1	GCCGCCCCCATGAAGCCCTTTCTTAC TGTAAGTGCTCAAGAACAAAGATA
4329	Table 3A	Hs.210943	AI823511	5444182	wh54h10.x1 cDNA, 3' end /clone=IMAGE:2384611 /clone_end=3'	-1	GCTAGCAGCACTCTGCCTTGTTCCTT TGGAGACAATTGTATCATCAATA
4330	Table 3A	NA	AA757952	2805815	zg49e07.s1 3' end /clone=IMAGE:396708 /	-1	ATTGGGAATATAGATCATCAACAGAC ACAGCCCTGGACGCATAAATTTGA
4331	Table 3A	Hs.10056	AA576946	2354420	hypothetical protein FLJ14621 (FLJ14621), mRNA /cds=(525,1307)	-1	ACTAACGTATTTTCATCATGGAAGGTC CTGTGGTGATGGTTTCCCTGGGA



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4332	Table 3A	Hs.132156	AI042377	3281571	ox62c03.x1 cDNA, 3' end /clone=IMAGE:1660900 /clone_end=3'	-1	AAGTAATAGCTCCCTGTTTGTGCCTT GTTAGGGCTAGGGATGTTTAAGGA
4333	Table 3A	Hs.173125	AI052431	3308422	peptidylprolyl isomerase F (cyclophilin F) (PPIF), mRNA /cds=(83,706)	-1	AGCTCCTCCCTTAGTGACCCCAAGT CTGTTTCCCTCAGCTGCATAAGGA
4334	Table 3A	Hs.122983	AI081246	3418038	oy67b06.x1 cDNA, 3' end /clone=IMAGE:1670867 /clone_end=3'	-1	CCCTCAAATCTCCCAATCTACTCCAG GGAAAAGACACTTCAAGTGAGAGA
4335	db mining	Hs.85923	AA194310	1784006	zq04g12.s1 cDNA, 3' end /clone=IMAGE:628774 /clone_end=3'	-1	ACATGCAAAACAGTGACTTACTTAGTG CTTCTGAAAAATTTCTGAGTCAGA
4336	Table 3A	Hs.118659	AI052447	3308438	oz07g04.x1 cDNA, 3' end /clone=IMAGE:1674878 /clone_end=3'	-1	AATGCCCATTTGGAAGTCAACATTGT TTTCCCTGAAAGTCTCTGAGACAGA
4337	Table 3A	Hs.231154	AA761571	2818898	oa30h07.s1 cDNA, 3' end /clone=IMAGE:1306525 /clone_end=3'	-1	CCATGTTTGCTGCTGCTGTTGAGTTT CTGTGCTTTGGGAGTATAATAAGA
4338	Table 3A	Hs.57787	AW029440	5888198	602381381F1 cDNA, 5' end /clone=IMAGE:4498845 /clone_end=5'	-1	TGTGTTTGGTTGGGTGTAATGAGGAA AATACCTGATAAAATGCTGAAGA
4339	Table 3A	Hs.57787	AA588755	2402486	602381381F1 cDNA, 5' end /clone=IMAGE:4498845 /clone_end=5'	-1	TGGATAAGTGAAGACAGTAATAACAT TGAAGCAGTGAACCAAGTGAAGA
4340	Table 3A	NA	AA974991	3150783	Soares_NFL_T_GBC_S1 cDNA clone IMAGE:1560953 3'	-1	AGCACAAAAATGTTGAAGTATTAGGC CCAAGCTCCATGTTTGGTTAGTCA
4341	Table 3A	Hs.127514	AI028287	3245576	ow01d08.x1 cDNA, 3' end /clone=IMAGE:1645547 /clone_end=3'	-1	CGTTTAACAATAATAAAGGTGACTGC TTCATCTAAGGAATCCGAGCCGCA
4342	Table 3A	Hs.88130	AI184553	3735191	qd60a05.x1 cDNA, 3' end /clone=IMAGE:1733840 /clone_end=3'	-1	GGGCATTCCACCGAAATCTTGGGGA AATTTAGTAGCCTTCATTTAGCA
4343	Table 3A	Hs.158965	AI380220	4190073	tf94a04.x1 cDNA, 3' end /clone=IMAGE:2106894 /clone_end=3'	-1	TCCATGTTCTGTGCAAGAAGGAGACA CATTTTCAGTTGAGGTTCCACGCA
4344	Table 3A	Hs.235823	AI379474	4189327	602631538F1 cDNA, 5' end /clone=IMAGE:4776728 /clone_end=5'	-1	AGCTCAACACTGTGGTAGGAAAATAG CCACTAGAAAAGAAAATAAAAGCA
4345	db mining	Hs.229560	AI373169	4153035	qz13b11.x1 cDNA, 3' end /clone=IMAGE:2021373 /clone_end=3'	-1	GCATCTCCAGGGTTTAGCATCAGGAC AGAGGATTAAGTAAATCTTTCCA
4346	Table 3A	Hs.146627	AI141004	3648461	oy68f02.x1 cDNA, 3' end /clone=IMAGE:1671003 /clone_end=3'	-1	GAGACTACAGAGCCTTAGCCCTTTA AAGCCCTTAAAGTTACTACTTCCA
4347	Table 3A	NA	AA431959	2115687	cDNA clone IMAGE:782188 3'	-1	AGAGCAAGTCTCAGAAAATGCTGT ATCTACACTGTGATGATTTGCCA
4348	db mining	Hs.56156	AA257976	1894471	601463367F1 cDNA, 5' end /clone=IMAGE:3866512 /clone_end=5'	-1	TGGTTCTCTGATTGTAATGAGCACC TGGATATGCAATTAATGCCCCA
4349	Table 3A	Hs.264298	AI380111	4189964	tf98a11.x1 cDNA, 3' end /clone=IMAGE:2107292 /clone_end=3'	-1	GCAAGACTGTTGAGTATTATGTTAGC ATTGATATAAAAAGACAGACCA
4350	Table 3A	Hs.40411	AI266255	3884413	qx69f01.x1 cDNA, 3' end /clone=IMAGE:2006617 /clone_end=3'	-1	AATGTTCCCAAAGGCCAAATTTGTTG CCAGGTTTATACGCAGGTACCA
4351	Table 3A	Hs.90753	AI223400	3805603	Tat-interacting protein (30kD) (TIP30); mRNA /cds=(98,828)	-1	TGCCTATTGTGATTATCGCTATCACTA CATCCCTGACTAAGGGAAACCA
4352	Table 3A	Hs.192427	AI380018	4189869	602296277F1 cDNA, 5' end /clone=IMAGE:4390770 /clone_end=5'	-1	ACAAAATTCAGTCGAGGTCGGTGGA TGATAGAATGCATTTTAAATCACA
4353	Table 3A	NA	AA524720	2265648	cDNA clone IMAGE:937468 3'	-1	GGACGGTTGGCTGAATGGCAACAGT GATGGAATATTTATATTTAGCCACA
4354	Table 3A	Hs.92909	AA187234	1773460	NREBP mRNA, complete cds /cds=(49,7209)	-1	ACATTGCACATTTAATAGCTGCACCA GACACTAAGAGTTCCTCTCACACA
4355	Table 3A	Hs.158877	AI378113	4187966	tc80c12.x1 cDNA, 3' end /clone=IMAGE:2072470 /clone_end=3'	-1	CGCTTGCTCTGTGAGTAGCTCGTCAC CTGAGGCCTGTGCTGAATATTAA
4356	Table 3A	Hs.314941	AI039880	3279084	602381893F1 cDNA, 5' end /clone=IMAGE:4499447 /clone_end=5'	-1	TGGAGCAAACACAGTTTCATGCCCA TCGTCTAGAAATTAATCCCTAA
4357	Table 3A	Hs.157813	AI361761	4113382	qz19a07.x1 cDNA, 3' end /clone=IMAGE:2021940 /clone_end=3'	-1	GGGACAACACAGTGGATTGAAATCT GAAGGGGCATTGGTGGTACTGGAA
4358	Table 3A	Hs.205079	AA742400	2784400	EST388750 cDNA	-1	ACCTCCATATCTTCTCGTACTTGTTC TGCTGGTCTCTTAGCTCTCCGAA
4359	Table 3A	Hs.87908	AI381586	4194387	Snf2-related CBP activator protein (SRCAP), mRNA /cds=(210,9125)	-1	CGAGGATGGTTTCTGATAGCTTTCA AACACCTTTGCCATCTCTCGCAA
4360	Table 3A	Hs.208854	AI766620	5233129	nab69e11.x1 cDNA, 3' end /clone=IMAGE:3272949 /clone_end=3'	-1	ACTCCTGACAGCTCATCTGCACAAAT TAAATCCAAAATTAAGTCGCAA
4361	Table 3A	Hs.157556	AI356405	4108026	qz26g04.x1 cDNA, 3' end /clone=IMAGE:2028054 /clone_end=3'	-1	GCTGGATCTCTGCCTAAAGTACGGT AGGATGAGAAGTAGAACGAGCAA

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4362	Table 3A	Hs.182594	AA806222	2874997	wd43h11.x1 cDNA, 3' end /clone=IMAGE:2330949 /clone_end=3'	-1	TCAGACCATAGGTGGGTGTTGTTTCT TTAAGTGTGTGACTGTGTCCTCA
4363	Table 3A	Hs.164168	AA806766	2880855	ob58h11.s1 cDNA, 3' end /clone=IMAGE:1335621 /clone_end=3'	-1	TCATCTATGTAGCTTAATCTCATCGAC GTTTCGGTTCATTTCCTGCACAA
4364	Table 3A	Hs.291129	AA581115	2358887	oe10d02.s1 cDNA /clone=IMAGE:1385475	-1	TTCCTTTTCCGCTAATCAAGAGTCCA GGGAGGTGGGAACAGCCTCAACAA
4365	Table 3A	Hs.33757	AI114652	6359997	HA1247 cDNA	-1	CCGGCAGCTGTGTTTAGCCCTCCA GATGGAAGTTTCACTTGAATGTAA
4366	Table 3A	Hs.121709	AA767883	2824475	ai35b09.s1 cDNA, 3' end /clone=1358969 /clone_end=3'	-1	ACAAAGGAATGAAGCTTTATGACAGG GCACGTGAAATGTTTATAGTAA
4367	Table 3A	NA	AI335004	4071931	tb21e09.x1 cDNA, 3' end /clone=IMAGE:2055016 /clone_end=3'	-1	ACTAAAGGTCACAACCCATTAAACAC CATGAAATGGTGTGTTGGGAAGAA
4368	Table 3A	Hs.157815	AI361849	4113470	qz19h11.x1 cDNA, 3' end /clone=IMAGE:2022021 /clone_end=3'	-1	TGCTCAGGAAACCAAAAGGATGTCT GCATGGAGGACAAAAGGCACAAA
4369	Table 3A	Hs.98903	AA913840	3053232	602680377F1 cDNA, 5' end /clone=IMAGE:4813147 /clone_end=5'	-1	TGAGAACC CGGCACCCTACCCATCG GCCACGTGACCAGTCTTTTAA
4370	Table 3A	Hs.292276	AI184710	3735348	qd64a01.x1 cDNA, 3' end /clone=IMAGE:1734216 /clone_end=3'	-1	GTCTTTGGGTCAGTGTCATCTCTC TTCAGTCTGGGGCTTGGGGA
4371	Table 3A	Hs.143314	AI357640	4109281	qy15b08.x1 cDNA, 3' end /clone=IMAGE:2012051 /clone_end=3'	-1	CTCCACACAGAGAATCTCGCGGATT TACACCCACAGGCTACGCAGAAA
4372	Table 3A	Hs.259084	AI144328	3666137	hg02g08.x1 cDNA, 3' end /clone=IMAGE:2944474 /clone_end=3'	-1	GCGCTGCTCCCAAAATCTATCTGCTG TTTAAATGTTTTACCTTTCA
4373	db mining	Hs.327454	AI378123	4187976	tc80e02.x1 cDNA, 3' end /clone=IMAGE:2072474 /clone_end=3'	-1	GGGTTACAGGGGTTTTCCCTTTGCC GTTTGCCCTGGGTTTATA
4374	db mining	Hs.132775	AI028477	3245788	ti02c07.x1 cDNA, 3' end /clone=IMAGE:2129292 /clone_end=3'	-1	CCAACTCCTCACAGGGCAGGCTAGC GGGCACAGGTGCCGGGGAAGTG G
4375	db mining	Hs.283392	AI052781	3308772	oy78h07.x1 cDNA, 3' end /clone=IMAGE:1671997 /clone_end=3'	-1	CGGCTGAGAGCCCGGTAGGGCCAG GGGCCAAGCGCAGGCAGAGGCCG G
4376	db mining	Hs.270564	AI361877	4113498	qz25d07.x1 cDNA, 3' end /clone=IMAGE:2027917 /clone_end=3'	-1	CTTGGGGTCCAGGGCACAGCGGTGC CGGGGACACAGCAGTTCGAGGGTC
4377	db mining	Hs.110059	AA82600	2898912	601763318F1 cDNA, 5' end /clone=IMAGE:4026173 /clone_end=5'	-1	AGTATGGTAATTAGAAAGCATGTTAG AACATGTGAAAAAGGGGAAAA
4378	Table 3A	NA	AI027844	3246543	cDNA clone IMAGE:1671612 3'	-1	CATCAGTCCTCATCAGCTGAAGTGGC TTCCCAAGGATTTAAATAAATAGT
4379	Table 3A	Hs.229374	AI380491	4190344	602851994F1 cDNA, 5' end /clone=IMAGE:4993678 /clone_end=5'	-1	AGACATTGACTACAGGGTAATTTCTA TGATTATATTATTAGAAGTATGA
4380	Table 3A	Hs.124344	H12462	877282	MR1-GN0173-071100-009-g10 cDNA	-1	CCAGTGAAGTGTAGCAACAATGCAG AAGAATCTGCATGTAATAAATCTGA
4381	Table 3A	Hs.144119	AI090305	3429364	oy81b01.s1 cDNA, 3' end /clone=IMAGE:1672201 /clone_end=3'	-1	ACTTAAATGCCCTTTTAAATTTTGTCTGA TGTAATAGTTTAAATACCAGTAA
4382	Table 3A	Hs.333513	AI379735	4189588	small inducible cytokine subfamily E, member 1 (endothelial monocyte- activating) (SCYE1), mRNA /cds=(49,987)	-1	TTTTTAATCTAGCTTCTTTTAAAGA TTATTTGGGTACCTAATAAGGA
4383	Table 3A	Hs.135339	AI051664	3307198	oy77f08.x1 cDNA, 3' end /clone=IMAGE:1671875 /clone_end=3'	-1	CAAAGCCTCCACAGGAGACCCACC CAGCAGCCGACGCCCTACCCAGGAG
4384	db mining	Hs.2186	AA182528	1766227	Homo sapiens, eukaryotic translation elongation factor 1 gamma, clone MGC:4501 IMAGE:2964623, mRNA, complete cds /cds=(2278,3231)	1	CGAGTGACATTGGCTGACATCACAGT TGCTGAACCTGTTGTGGCTCTAT
4385	db mining	Hs.101370	AA287260	1932959	AL583391 cDNA /clone=CS0DL012YA12-(3-prime)	1	TGAATTGCTTCAAAACCTCTTCCATCT CAGAAGACCAGACCTGGGAACCT
4386	Table 3A	Hs.238514	AA613460	2464498	xy52e08.x1 cDNA, 3' end /clone=IMAGE:2856806 /clone_end=3'	1	GCTGAAGTGGCAATGAGAGAGTCT GCTAGAAAGACGGAAGTACCATCT
4387	Table 3A	NA	AA665359	2880102	nt89f05.s1 NCI CGAP Pr12 cDNA clone IMAGE:1205697 similar to SW:ATP6_HUMAN P00846 ATP SYNTHASE A CH	1	TCTACTGACTATCCTAGAAATCGCTG TCGCCTTAATCCAAGCCTACGTTT
4388	db mining	Hs.98507	AB011115	3043609	mRNA for KIAA0543 protein, partial cds /cds=(0,3336)	1	GTGTGTGCTTAGCCAAATACAGTAAC TGTGACTGGCCAGGGATGTTCTC
4389	db mining	Hs.129268	AB037809	7243156	mRNA for KIAA1388 protein, partial cds /cds=(572,2371)	1	GTGAGTCCAATGTATGCTTTAGAAGT AAAGACATTGACCGTCACAGACCA
4390	Table 3A	Hs.296317	AB058692	14017794	mRNA for KIAA1789 protein, partial cds /cds=(3468,4899)	1	CTCAAGAAAAGACAGAAGAGACAGTG ATTTGGGATGAGTCTACTCTAGGA

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4391	Table 3A	Hs.195175	AF005775	2286146	mRNA for CASH alpha protein /cds=(481,1923)	1	ACCCTATGCCCATTTGCTCTGATCTGA AAATTCCTGGAAATTGTTCCATGT
4392	db mining	Hs.62187	AF022913	2558890	GPI transamidase mRNA, complete cds /cds=(17,1204)	1	TTCACAGTCTTCTATTGTTGGACCAC TTACATTGTACCAAATGTTTTCCT
4393	db mining	Hs.248077	AF044592	2852420	lymphocyte-predominant Hodgkin's disease case #4 immunoglobulin heavy chain gene, variable region	1	ATTAAGCCCCCGTAGCCCATCCCGCA AGTTAGATACAGCTATGGTTAAGG
4394	db mining	Hs.248078	AF044595	2852426	lymphocyte-predominant Hodgkin's disease case #7 immunoglobulin heavy chain gene, variable region	1	TTATATTGTAGTGGTGGTATTGCTTT CCGCCTGTTGGCTACTTCGACCC
4395	Table 3A	Hs.25812	AF058696	3098674	Nijmegen breakage syndrome 1 (nibrin) (NBS1), mRNA /cds=(52,2316)	1	TTGTTCTCTGTCTATGCCACAATCCC TTTCTAAGGAAGACTGCCTACTA
4396	db mining	Hs.300865	AF063725	3142513	clone BCSynL38 immunoglobulin lambda light chain variable region mRNA, partial cds /cds=(0,116)	1	ACTGAGGACGAGGCTGACTACTACT GTCAGTCTTATGATAGACCTATCA
4397	db mining	Hs.249208	AF063764	3135618	clone LBLG9 immunoglobulin lambda light chain variable region gene, partial cds /cds=(0,289)	1	AGATGGAGGATGAAGCTGACTACTAC TGTTACTCAACAGACAGCAGTGGT
4398	db mining	Hs.293441	AF067420	3201899	SNC73 protein (SNC73) mRNA, complete cds /cds=(395,1549)	1	CATGTCAATGTGTCTGTTGTCATGGC GGAGGTGGACGGCACCTGCTACTG
4399	db mining	Hs.293441	AF067420	3201899	SNC73 protein (SNC73) mRNA, complete cds /cds=(395,1549)	1	GTCAATGTGTCTGTTGTCATGGCGGA GGTGGACGGCACCTGCTACTGAGC
4400	db mining	Hs.247721	AF073705	3335589	clone mcg53-54 immunoglobulin lambda light chain variable region 4a mRNA, partial cds /cds=(0,324)	1	TCCAACTCCAGTTTGAGGATGAGGC TGATTATTACTGTGAGACCTGGGA
4401	Table 3A	Hs.22380	AF086431	3483776	AL557896 cDNA /clone=CS0DJ003YD10-(5-prime)	1	GACTACAACCTGGCAATCCCAACTCCT GGGCTAGGGCTTTCTTCTACCTTTT
4402	db mining	Hs.283882	AF103295	4838126	clone N97 immunoglobulin heavy chain variable region mRNA, partial cds /cds=(0,377)	1	TATTTCTGTGCGAGAGTTCGCCCTAA ACATGGCGGAGGCTTCTCTACAA
4403	Table 3A	Hs.167827	AF116909	4768835	clone HH419 unknown mRNA /cds=(189,593)	1	TGGCTAGGAGACCTTGGGCAGTACC TACAGTCTTGCTGTTTCTGTTTCAT
4404	db mining	Hs.149235	AF119843	7770122	PRO1085 mRNA, complete cds /cds=(539,1582)	1	GTGAGCTGAACAAATACATCATTTAA ATCTATGCTGCACCTTTGAGTTGCT
4405	db mining	Hs.193053	AF121255	6468774	protein translation initiation factor 2C2 (EIF2C2) mRNA, partial cds /cds=(0,1133)	1	CCCGTGTGTTTACAGCATTTCCAGGT CCAGAGAGGTTGGCAGACAAGTGC
4406	db mining	Hs.247909	AF127125	4337068	isolate 459 immunoglobulin lambda light chain variable region (IGL) gene, partial cds /cds=(0,265)	1	AGCTGTGGGATATAAGTAGTGGTCAT TATGTCCTCGGAGGTGGCACCCT
4407	db mining	Hs.204588	AF150138	5133574	AF150138 cDNA /clone=CBCBOG02	1	GCCCTTTGAGAAAGACTTTGTTCCCTG AACTGCTCCCTTCTCTTTTAGGGT
4408	db mining	Hs.205158	AF150141	5133577	AF150141 cDNA /clone=CBCBQD03	1	GGTCTGGTTCTAGATCAGCCTTTTCA GTCTGCCCTGGCCTGGCTATTAA
4409	db mining	Hs.205438	AF150373	5133809	AF150373 cDNA /clone=CBMACE02	1	GAAAAACCTGGCTAGAGCAGAGCAC AGGATGTAAAGGGTGGGGGAGAAC
4410	db mining	Hs.283929	AF161340	6841093	HSPC077 mRNA, partial cds /cds=(0,396)	1	GGTTATCTGAGCATAACAGGGACAG GGTGGGCCACAGGATACCTCTGAGG
4411	db mining	Hs.283931	AF161351	6841115	HSPC088 mRNA, partial cds /cds=(0,305)	1	ACAAGCAGGAGCACATCGCTCTTTTA TGAAAGCCCTTCAACATTTAACCT
4412	db mining	Hs.326257	AF161360	6841133	602288541T1 cDNA, 3' end /clone=IMAGE:4374059 /clone_end=3'	1	CAGGGACACCCTTATCTGCTTCCA CTATAGCATGAATCAGTGCTCTCT
4413	db mining	Hs.283934	AF161365	6841143	HSPC102 mRNA, partial cds /cds=(0,285)	1	CATCGCACACGAATTTGAATCATCTG CTCTTTGGAATCGCCTACACCCCTG
4414	db mining	Hs.283935	AF161370	6841153	HSPC107 mRNA, partial cds /cds=(0,473)	1	TGTATGTAGGTGTCTGAGCTTCACAA GCCTTTTATAGTCCATTGAGCACT
4415	db mining	Hs.283924	AF168811	5833844	clone case06H1 immunoglobulin heavy chain variable region gene, partial cds /cds=(0,322)	1	CGACGACAACGGTGTATATTATTGTG CGAAAGATCGGCGAGATTGACTT
4416	db mining	Hs.177461	AF174394	5802906	apoptotic-related protein PCAR mRNA, partial cds /cds=(0,439)	1	CGGTGAGACTCAGTGAAAGCCATCA GCAAACTACAGTAATGCGGCACTA
4417	Table 3A	Hs.160422	AF218032	10441993	clone PP802 unknown mRNA /cds=(693,1706)	1	AAGTTAAACAAGACTCTGAAAGCCCT AAATCAACTAGTCCGTCGGCTGCA
4418	db mining	Hs.169992	AF308298	12060848	serologically defined breast cancer antigen NY-BR-84 mRNA, partial cds /cds=(0,721)	1	CTTGAGTGGTCTCTCTGCTGCTGCTG CTCATTTGCTTGGGCAACCATT
4419	db mining	Hs.170580	AF475577	4328622	tc92e07.y1 cDNA, 5' end /clone=IMAGE:2073636 /clone_end=5'	1	CCCAGGAATATACAGTACTTCTGTAG TGTCCAGCCATTACTTAGCAAGGG
4420	Table 3A	Hs.145668	AF783342	5341058	fmfc5 cDNA /clone=CR6-21	1	TGCTCTGTCTGCTGGTTTGCATTGTT TCTGTCTGAGTTAAGAGACTGGCA
4421	Table 3A	Hs.194382	AF904071	6494458	ataxia telangiectasia (ATM) gene, complete cds /cds=(795,9965)	1	TTCTTTTCTCCGTTAGCCACGAGCT ACCTACTCCCGCTTCCGGTTCAAA
4422	db mining	Hs.333140	AJ225092	3090425	mRNA for single-chain antibody, complete cds (scFv2) /cds=(0,806)	1	AAAACATCTCTCAGAAGAGGATCTGA ATGGGGCCGCACATCACCATCATC
4423	db mining	Hs.272356	AJ275371	7573002	partial IGvH3 gene for immunoglobulin heavy chain V region, case 1, clone 16 /cds=(0,236)	1	GATGAACAGTCTGAGAGGCGAGGAC ACGGCCTTGTTAACTGTGCGAGTC

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4424	db mining	Hs.272357	AJ275374	7573008	>partial IGVH3 gene for immunoglobulin heavy chain V region,	1	TACTACTTGCCAGGTCCAAGAACGGG
4425	db mining	Hs.272358	AJ275383	7573027	partial IGVH3 gene for immunoglobulin heavy chain V region, case 1,	1	GCGGGTCCTGTTATCATTATTACA GCTGTGTTTTCTGTGGGTGAAATAA AGGTTTCGGAGCCCGTTTAGATA
4426	db mining	Hs.272359	AJ275397	7573056	partial IGVH1 gene for immunoglobulin heavy chain V region,	1	CATTTCTGTGCGAGAGTGAAGAGGG GACCCTAGAGGATTCGTTGTGGGA
4427	db mining	Hs.272360	AJ275399	7573060	partial IGVH2 gene for immunoglobulin lambda light chain V region	1	GGACTCCAGGCTGAGGACGAGGCTG ATTATTAGTGATGCTCATAAACAG
4428	db mining	Hs.272361	AJ275401	7573084	partial IGVH3 gene for immunoglobulin heavy chain V region	1	CTCTTATTGTGCGAGAGACCTCCCGG AACTGCCACTGAAGGTGGAGGCTA
4429	db mining	Hs.272362	AJ275405	7573073	partial IGVH1 gene for immunoglobulin lambda light chain V region	1	CTCCCTGACTATCTCGGGCCTCTAGC CTGAGGACGAGGCTGATTATTATT
4430	db mining	Hs.272364	AJ275413	7573089	partial IGVH3 DP29 gene for immunoglobulin heavy chain V region, case 1, cell Mo VII 116 /cds=(0,257)	1	AAGAACTCACTGTATCTGCAATGAA CAGCCTGAAACCGAGGACACGGC
4431	db mining	Hs.272365	AJ275453	7573172	partial IGVH4 gene for immunoglobulin heavy chain V region	1	CACGGCTGTGTTTAACTCTGCGACAT GCGGGGGACTATGGTTCGGGGGAA
4432	db mining	Hs.50102	AK002096	7023770	mRNA for rapa-2 (rapa gene) /cds=(836,3742)	1	TCAGGGTGATTGAAGGACACATATTG AAGTACCTAGAATGCCAGAAAGTG
4433	db mining	Hs.270247	AK022039	10433357	cDNA FLJ11977 fis, clone HEMBB1001254 /cds=UNKNOWN	1	AACAAAACCTGTGATTATATCAATAA CAATGGCTTGGAGGGGGTATGGA
4434	db mining	Hs.156110	AK024974	10437403	cDNA: FLJ21321 fis, clone COL02335, highly similar to HSA010442 mRNA for immunoglobulin kappa light chain /cds=UNKNOWN	1	TTTTCCACAGGGGACCTACCCCTATT GCGGTCCTCCAGCTCATCTTTACAC
4435	db mining	Hs.156110	AK024974	10437403	cDNA: FLJ21321 fis, clone COL02335, highly similar to HSA010442 mRNA for immunoglobulin kappa light chain /cds=UNKNOWN	1	TTTTCCACAGGGGACCTACCCCTATT GCGGTCCTCCAGCTCATCTTTACAC
4436	db mining	Hs.156110	AK024974	10437403	cDNA: FLJ21321 fis, clone COL02335, highly similar to HSA010442 mRNA for immunoglobulin kappa light chain /cds=UNKNOWN	1	TTTTCCACAGGGGACCTACCCCTATT GCGGTCCTCCAGCTCATCTTTACAC
4437	db mining	Hs.323884	AK025398	10437905	cDNA: FLJ21745 fis, clone COLF5038 /cds=UNKNOWN	1	TGTGGCTGTACTTAACCTTCTCCAAC ATACATCCTGCATTACATGAATGG
4438	db mining	Hs.1501	AK025488	10438019	heparan sulfate proteoglycan (HSPG) core protein, 3' end /cds=(0,1193)	1	AAGCCTTTGAAGTGCCTCTGATTCTA TGTAACCTGTTCAGACTGGTGTT
4439	db mining	Hs.287697	AK026199	10438971	cDNA: FLJ22546 fis, clone HSI00290 /cds=UNKNOWN	1	GCATTGACCTGGAAGGAGAGAAGAT AGAGAGTGGAGGCTCTGAAGGAGAC
4440	db mining	Hs.287728	AK026793	10439729	cDNA: FLJ23140 fis, clone LNG09065 /cds=UNKNOWN	1	CAGTACAGGGCTGGCAAGCAGTGAT CTCTCAGGTATATTTATCAATAATT
4441	db mining	Hs.104698	AK026832	10439779	mRNA for KIAA1324 protein, partial cds /cds=(0,1743)	1	CAAACCTCTCTTCTGCTTGCCCTCAA ACCTGCCAAATATACCCACACTTT
4442	db mining	Hs.24684	AK026917	10439889	mRNA for KIAA1376 protein, partial cds /cds=(143,1456)	1	GGTGCTGAATATGTCTTGATGGCTC TGTTTAAAGAAACAATATGTGGG
4443	db mining	Hs.152925	AK027260	10440394	mRNA for KIAA1268 protein, partial cds /cds=(0,3071)	1	AGTGATTTGATTAACCTCAGGGCAAGG CTGAATATCAGAGTGATATCGCACT
4444	Table 3A	Hs.301763	AL049935	4884177	mRNA; cDNA DKFZp564O1116 (from clone DKFZp564O1116) /cds=UNKNOWN	1	GCTTCCACTGGAGGCTTGATTGACC TTGTAACATATATGTTAATCTCGTG
4445	db mining	Hs.18368	AL080186	5262664	mRNA; cDNA DKFZp564B0769 (from clone DKFZp564B0769); partial cds /cds=(0,900)	1	ATGCATGTTTACCAAATGGCTGTTT ACAGTGCACTTCAGTTCTGATATT
4446	Table 3A	Hs.328292	AL134898	6603085	DNA sequence from clone RP5-1167H4 on chromosome 20. Contains ESTs, STSs, GSSs and CpG islands. Contains a novel gene, the STK15 gene for serine/threonine kinase 15, the CSTF1 gene for cleavage stimulation factor subunit 1 (50 kDa), a novel gene similar to NEDD9 for neural precursor cell expressed developmentally down-regulated protein 9 (enhancer of filamentation 1, HEF1) (CRK-associated substrate-related protein, CAS-L) and a 60S ribosomal protein L39 (RPL39) pseudogene /cds=(44,622)	1	ACATGACAGGTGTAATTAGTCTGCTG AGCCAGCTTTACCCAATGAAGGGC
4447	Table 3A	Hs.260024	AL136842	6807668	mRNA; cDNA DKFZp434A0530 (from clone DKFZp434A0530); complete cds /cds=(968,1732)	1	AACAGCAACCAATAACGGATTGTAAA GTGTAAGGCACAGGTTACTCATG
4448	db mining	Hs.296356	AL137408	6807955	mRNA; cDNA DKFZp434M162 (from clone DKFZp434M162) /cds=UNKNOWN	1	CCATGCCAAGGAATGGAATTTCCATC CTGAGCCAGTTCAAGTTAGGTGTCA
4449	db mining	Hs.56285	AL137738	6808315	mRNA; cDNA DKFZp586P2321 (from clone DKFZp586P2321) /cds=UNKNOWN	1	CTAGAGTTTCATCTCTGAGCTGTAAGG GTGACCAGGGGGCAGGGGGACGAT

Table 8

4450	Table 3A	Hs.66151	AL157438	7018513	mRNA; cDNA DKFZp434A115 (from clone DKFZp434A115) /cds=UNKNOWN	1	CAAGTAGACACCAGAGTCACTGTTTG GTTGGTGGGTGATAGTGGGGTCAC
4451	Table 3A	Hs.106875	AL355722	7799110	EST from clone 35214, full insert /cds=UNKNOWN	1	TGTCACCCTTCCATGACGCCTCCTCT GTGCATTGAGTTCACTGTTTATG
4452	db mining	Hs.283849	AL359560	8655615	mRNA; cDNA DKFZp762F0616 (from clone DKFZp762F0616) /cds=UNKNOWN	1	GGTAACATGAGCTATGGCAGTCGGTT GTGAACCCACAGGAAGTGTATGGG
4453	Table 3A	Hs.23964	AL360135	8919158	sin3-associated polypeptide, 18kD (SAP18), mRNA /cds=(573,1034)	1	CAAATCGGGCACCACCTCCTTCAGG GCGCATGAGACCATAATTAATCTCTA
4454	Table 3A	Hs.10927	AL365373	9187358	HSZ78330 cDNA /clone=2.49-(CEPH)	1	CAGAACTGCTTTCCTATGTTTACCCA GGGGACCTCCTTTCAGATGAAGCTG
4455	db mining	Hs.171118	AL583913	13093778	DNA sequence from clone RP11-165F24 on chromosome 9. Contains the 3' end of the gene for a novel protein (similar to Drosophila CG6830 and CG11376, KIAA1058, rat TRG), an RPL12 (60S ribosomal protein L12) pseudogene, ESTs, STSs, GSSs and a CpG island /cds=(0,4617)	1	AGCAATAATATCTCTGTTTTCATTTC AATCATTTGTGCTGTCTGTGACCA
4456	Table 3A	Hs.11806	AU124763	10949479	7-dehydrocholesterol reductase (DHCR7), mRNA /cds=(194,1621)	1	TTACAACATCATGATGGGCATCGAGT TTAACCCCTTGGATCGGGAAGTGGG
4457	db mining	Hs.205435	AV740518	10858099	AV740518 cDNA, 5' end /clone=CBDAGC01 /clone_end=5'	1	AATGTTTGAGCTGACCAAGCTTCTGA GATTCTTAACAGAAAAAGCCATGT
4458	db mining	Hs.204751	AV741208	10858789	AF150335 cDNA /clone=CBLAQF05	1	ACGTCAAGCTTAAAGCTGGAAGAAGT CTTCTGGTGATACTGAGATTGA
4459	db mining	Hs.204932	AV743878	10861459	AV743878 cDNA, 5' end /clone=CBLAOC04 /clone_end=5'	1	GCCCAAGGAGTAGCTCTCTGTTGTT ACTGTTGTGCTCTTTCATGGATAAA
4460	db mining	Hs.205159	AV744351	10861932	AF150295 cDNA /clone=CBLADB01	1	GCAAAAAGCCCAAGAGCCTGAATTTA GACCAATCTATCATCTTCTCCTCTC
4461	db mining	Hs.205789	AV756240	10914088	AV756240 cDNA, 5' end /clone=BMFAUH12 /clone_end=5'	1	TGGAGATGTGATAACAACCTCTTATC TCTTTGTTGGCTCATCTGAAGTGT
4462	db mining	Hs.254948	AW291284	6697920	UIH-BI2-agi-h-10-0-UI.s1 cDNA, 3' end /clone=IMAGE:2724714 /clone_end=3'	1	CTTGCAAGTAAATGTAGCCCTTCTCTC CTGGTTGTGCAGAGAGTGCCCTCG
4463	db mining	Hs.250605	AW327360	6797855	dq02e11.x1 cDNA, 5' end /clone=IMAGE:2846685 /clone_end=5'	1	TTTCTTTAGCCCAAGAGTGGAGGCTA AGCTACTTACTTCCAAGCCTGGGT
4464	Table 3A	Hs.211194	AW362304	6866954	CM3-CT0275-031199-031-a08 cDNA	1	AGGCAAAAGGGAAGTGAATTAGAAA ACCCCAGAAACAGTCAAGTGGCT
4465	Table 3A	Hs.342300	AW389509	6894168	xm47a08.x1 cDNA, 3' end /clone=IMAGE:2687314 /clone_end=3'	1	AGGGTCCCTTCCATAGTCTCTCTGCA TCATTTCTCTCCAAGTGAATAAA
4466	Table 3A	Hs.202402	AW390251	6894910	CM4-ST0182-051099-021-b06 cDNA	1	GCCAACCAGTTCAGAGTGTCCCAAG GAATTGCCACCCTTACTCTTCAAA
4467	Table 3A	Hs.182123	AW838827	7932801	CM1-LT0059-280100-108-e02 cDNA	1	ATCCAGTCTCAAATTTCTTATTGG AACTGATATGTAGGCCCTCATCG
4468	Table 3A	Hs.194589	AW945538	8123293	AV703056 cDNA, 5' end /clone=ADBCMB06 /clone_end=5'	1	TCTCTCACTGTTATCATTTTGCACAG GTGGTTTCAGCAGCTTGATGCCA
4469	Table 3A	Hs.83724	BC000957	13111830	Homo sapiens, clone IMAGE:3451448, mRNA, partial cds /cds=(0,901)	1	ATTGTCATTAGACTTTGAACAGCTCT GGGAAATAGAAGACTAGGGTTGT
4470	db mining	Hs.267690	BC001224	12654762	mRNA for KIAA1228 protein, partial cds /cds=(0,2176)	1	TTTCCTTGTTCCTCCCATGCCTAGC TGGATTGCAGAGTTAAGTTTATGA
4471	db mining	Hs.76932	BC002332	12803082	Homo sapiens, Similar to hypothetical protein FLJ20419, clone MGC:15417 IMAGE:3942735, mRNA, complete cds /cds=(208,918)	1	GGATTACCGTGGCCGACTCTTTTCC CTGCTTTGGTTTGTGTTGAAATCTA
4472	Table 3A	Hs.343272	BC002770	12803854	Homo sapiens, clone IMAGE:3616574, mRNA, partial cds /cds=(0,640)	1	CCCTCCACACCATCTCCCGGATTTA AATATAGTCACTGCTACAAGTAAC
4473	db mining	Hs.81221	BC002792	12803890	Homo sapiens, clone MGC:3963 IMAGE:3621362, mRNA, complete cds /cds=(40,402)	1	TTCATCATTGCTTGCTTGCTTCTCTC CCTTCTGTCCGCTCTTACTCCCTC
4474	db mining	Hs.302063	BC002963	12804210	rearranged immunoglobulin mRNA for mu heavy chain enhancer and constant region /cds=UNKNOWN	1	GCAAACTAACCAGTGTCAACGGGGTG AGATGTTGCATCTTATAAAATTAGA
4475	db mining	Hs.302063	BC002963	12804210	rearranged immunoglobulin mRNA for mu heavy chain enhancer and constant region /cds=UNKNOWN	1	GCAAACTAACCAGTGTCAACGGGGTG AGATGTTGCATCTTATAAAATTAGA
4476	db mining	Hs.302063	BC002963	12804210	rearranged immunoglobulin mRNA for mu heavy chain enhancer and constant region /cds=UNKNOWN	1	GCAAACTAACCAGTGTCAACGGGGTG AGATGTTGCATCTTATAAAATTAGA
4477	Table 3A	Hs.334787	BC003063	13937660	Homo sapiens, clone MGC:19556 IMAGE:4304831, mRNA, complete cds /cds=(1505,1666)	1	AGTATCTGCTTTCCAGGCTGAAGTGA TTCATTATTATTCTAGTCTGCT
4478	Table 3A	Hs.334573	BC006008	13937718	Homo sapiens, clone IMAGE:4285740, mRNA /cds=UNKNOWN	1	AAGCTGTCTCTTTTGTGGACAATCA GCCAGAATGATAAGCAAACTGCA
4479	db mining	Hs.300697	BC006402	13623574	mRNA for immunoglobulin lambda heavy chain /cds=(65,1498)	1	CTCTCGCGGTGCGACGAGGATGCTT GGCACGTACCCCTGTACATACTTC

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4480	db mining	Hs.300697	BC006402	13623574	mRNA for immunoglobulin lambda heavy chain /cds=(65,1498)	1	CTCTCGGGTGCACGAGGATGCTTGGCAGTACCCCTGTACATACTTC
4481	db mining	Hs.300697	BC006402	13623574	mRNA for immunoglobulin lambda heavy chain /cds=(65,1498)	1	CTCTCGGGTGCACGAGGATGCTTGGCAGTACCCCTGTACATACTTC
4482	Table 3A	Hs.155101	BC007299	13938338	mRNA for KIAA1578 protein, partial cds /cds=(0,3608)	1	CTCCTGTGGATTACATCAAATACCA GTTCAGTTTGTCAATTGTTCTAGT
4483	db mining	Hs.184776	BC007583	14043190	ribosomal protein L23a (RPL23A), mRNA /cds=(23,493)	1	GGCTCCTGATTACGATGCTTTGGGATG TTGCCAACAAAATTGGGATCATCT
4484	db mining	Hs.250528	BC007747	14043522	Homo sapiens, clone IMAGE:4098694, mRNA, partial cds /cds=(0,2501)	1	AACGCCAGCATTTTGTAGAGGAGTT AGACTTGGAAAGTTAAGGGAAGA
4485	Table 3A	Hs.44155	BC008629	14250392	mRNA; cDNA DKFZp586G1517 (from clone DKFZp586G1517); partial cds /cds=(0,2755)	1	ATGGGGGACTAAGGGATTAAGAGTGT GAACTAAAAGGTAACATTTTCCACT
4486	Table 3A	Hs.164280	BC008737	14250566	Homo sapiens, Similar to solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5, clone MGC:3042 IMAGE:3342722, mRNA, complete cds /cds=(88,984)	1	ACTGGCGAGTATGTTCTATGTTGGGC CTCCTGCTGCAAAACAATAACAG
4487	Table 3A	Hs.336425	BC009111	14318625	Homo sapiens, clone MGC:17296 IMAGE:3460701, mRNA, complete cds /cds=(3250,3498)	1	GCTGATTAAGTGTATTTCCCTTTCCC CTATGGCTGCTGGTGTAATAAAG
4488	db mining	Hs.287797	BC009469	14495714	mRNA for FLJ00043 protein, partial cds /cds=(0,4248)	1	CCCAGGGTTTCATGTCTGAGGCGCTC ACCAAGTGTGATGACGATATAAA
4489	literature	Hs.287797	BC009469	14495714	mRNA for FLJ00043 protein, partial cds /cds=(0,4248)	1	CCCAGGGTTTCATGTCTGAGGCGCTC ACCAAGTGTGATGACGATATAAA
4490	db mining	Hs.293842	BG508472	13467989	601571679F1 cDNA, 5' end /clone=IMAGE:3838675 /clone_end=5'	1	ACAAGAAATGGTTGAGGCGAATTTG GAAACACATGGGCTTAATGCTGAA
4491	db mining	Hs.224344	BG623174	13674545	602648078F1 cDNA, 5' end /clone=IMAGE:4769802 /clone_end=5'	1	ACACCTCTCTATTTTGAAGTCCCTAT GTGCCCTGTAATGTCTCGTTTAA
4492	db mining	Hs.127128	BI091076	14509406	ok13e12.s1 cDNA, 3' end /clone=IMAGE:1507728 /clone_end=3'	1	GGGAGAGCTCATGTCAAGTGAATATAG ATCATTCTGTTGATACCCCTCTTT
4493	db mining	Hs.330212	D20259	501356	HUMGS01233 cDNA, 3' end /clone=pm1527 /clone_end=3'	1	TTGAAACTTGTAAGTGAAGTCTGTGA GTTTTTTGCCATCTGTAGTGATGT
4494	db mining	Hs.330467	D20413	501509	HUMGS01387 cDNA, 3' end /clone=pm1535 /clone_end=3'	1	AAAGGGTTTATCCCATGTCAATTTCAA TTGGATAACATTTTGTCAAGTTT
4495	db mining	Hs.330223	D20542	501638	HUMGS01517 cDNA, 3' end /clone=pm1520 /clone_end=3'	1	TCGGAAAGAAGAAGTGGGAGGATGT GAATTTAGTTCTGAGTTTACCAAA
4496	db mining	Hs.330255	D20847	504667	HUMGS01828 cDNA, 3' end /clone=mp1214 /clone_end=3'	1	GATCGGGAAGTGGCTCCGTTGTGCT GAGGTCATCTTTGGTCATCAGCCTC
4497	db mining	Hs.141296	D88979	6634000	mRNA for KIAA0226 protein, partial cds /cds=(0,3033)	1	TGGTGCTGTGTCAGCCTGGCAGTTCA TTGTATCTTTAATAAAGTAAAGGA
4498	db mining	Hs.303450	H13491	878311	yj15f02.r1 cDNA, 5' end /clone=IMAGE:148827 /clone_end=5'	1	AGAAGTACAAGATTTCTGTTCTTCTT CCATTAAAGTACAATCTCCCTGGG
4499	db mining	Hs.138563	H65914	1024654	601819705F1 cDNA, 5' end /clone=IMAGE:4051657 /clone_end=5'	1	TACAAGTGAAAGCTTAAGATGAACACA TTTAAGTTAATGGCAGCCTTGTT
4500	db mining	Hs.73858	J05158	179935	carboxypeptidase N mRNA, 3' end /cds=(0,1610)	1	AAAAGGATGTGACAGAAGCAGAGAT GACCAGAAAGCACAGGGGCAGGGTT
4501	db mining	Hs.69771	K01568	187721	B-factor, properdin	1	GGGTTTTCTATAAGGGGTTTCTGCT GAACAGGGGCGTGGGATTGAATTA
4502	literature	Hs.278625	K02403	187768	complement component 4B (C4B), mRNA /cds=(51,5285)	1	CCTGGGACCAGGGCATATTAAGAGGC TTTTGGCAGCAAGTGTCAAGTTG
4503	db mining	Hs.132807	L29376	561725	(clone 3.8-1) MHC class I mRNA fragment /cds=UNKNOWN	1	TTTGTGGCTTGGGGCTGCCTACTATA AACTATTGGGGGTTCTGTCATTTT
4504	db mining	Hs.274509	M16768	339399	T-cell receptor aberrantly rearranged gamma-chain mRNA from cell line HPB-MLT /cds=UNKNOWN	1	TTTACAGCCCTGAGCAGTCTTCTT TGCTAGTTGAATTATGTTGGTGTGT
4505	db mining	Hs.247956	M22005	186300	interleukin 2 gene, clone pATlacL-2C/2TT, complete cds, clone pATlacL-2C/2TT /cds=(0,404)	1	AATTCCTGAACCGTTGGATCACCTTC TGTCAGTCCATCATCTCCACCCTG
4506	db mining	Hs.247923	M31949	185254	Ig rearranged mu-chain V-region gene, subgroup VH-III, exon 1 and 2	1	CTTACGTTGGGACACCTAAATTCGCC GCGTCTGTAGAAGGCAGATTCGAG
4507	db mining	Hs.247930	M55420	185346	IgE chain, last 2 exons	1	AAAACCGTGTCTGTCCCTTCAACAGA GTCATCGAGGAGGGGTGGCTGCTA
4508	literature	NA	M73276	177970	Human angiotensin I-converting enzyme (ACE) gene, 5' flank	1	AAACTGCCGGGTCCCATCTTCAAAA GAGAGGAGGCCCTTTCTCCAGCTT
4509	Table 3A	Hs.154365	M82882	180551	dis-acting sequence /cds=UNKNOWN	1	CAAGAAAGCAACTTGAGCCTTGGGCT AATCTGGCTGAGTAGTCAGTTATA
4510	Table 3A	Hs.171699	N31778	1152177	yx70d02.r1 cDNA, 5' end /clone=IMAGE:267075 /clone_end=5'	1	TGTGTTCTTTGAGTTCCCCCTTTACC CAAAAGTAATTTGGGGACCAAAGT
4511	db mining	Hs.269035	N39815	1163360	yx93c06.r1 cDNA, 5' end /clone=IMAGE:269290 /clone_end=5'	1	GGGAAGGCAATCTGATGGGGAAGTT GGCAATTTCTGGTTTGGGTGATTTA
4512	db mining	Hs.169401	NM_000041	4557324	apolipoprotein E (APOE), mRNA /cds=(60,1013)	1	CCAGCCGCTCCTCTGGGGTGACCCT TAGTTTAATAAAGATTCACCAAGTT

Table 8

4513	literature	Hs.38069	NM_000066	4557390	complement component 8, beta polypeptide (C8B), mRNA /cds=(27,1802)	1	CATGCAAGGGCAAAAGGCAGTGCCA TGCAAGCTGTTTAAAAATAAGATGT
4514	literature	Hs.317585	NM_000088	14719826	cDNA: FLJ21026 fis, clone CAE06812 /cds=(27,677)	1	AGGGGTGGGAGGAAGCAAAAGACTC TGTACCTATTTTGTATGTGTATAAT
4515	db mining	Hs.1472	NM_000173	4504070	glycoprotein Ib (platelet), alpha polypeptide (GP1BA), mRNA /cds=(42,1922)	1	TCAGGATGTGAGCACTCGTTGTGTCT GGATGTTACAAATATGGGTGGTTT
4516	literature	Hs.180532	NM_000175	4504086	Homo sapiens, clone IMAGE:4098234, mRNA, partial cds /cds=(0,904)	1	TGTTACAGTTGTTTACATCCCATGTA GAAAAACAAGATGCCACGGAGGA
4517	db mining	Hs.290070	NM_000177	4504164	gelsolin (amyloidosis, Finnish type) (GSN), mRNA /cds=(14,2362)	1	AGCCCTGCAAAAATTCAGAGTCCTTG CAAAATTGTCTAAAATGTGAGTGT
4518	literature	Hs.227730	NM_000210	1111111	integrin, alpha 6 (ITGA6), mRNA /cds=(146,3367)	1	TGTCATCTCAAGTCAAGTCACTGGTGC TGTTTGCATTGTGATACATTTTGT
4519	db mining	Hs.90598	NM_000247	4557750	MHC class I polypeptide-related sequence A (MICA), mRNA /cds=(39,1190)	1	GAGTGACCACAGGGATGCCACACAG CTCGGATTTCAGCCTCTGATGTCTAG
4520	db mining	Hs.1817	NM_000250	4557758	myeloperoxidase (MPO), nuclear gene encoding mitochondrial protein, mRNA /cds=(177,2414)	1	GCCTGTTGCCCTTTCTGTACCATTTA TTTGCTCCCAATGTTTATGATAAT
4521	db mining	Hs.1817	NM_000250	4557758	myeloperoxidase (MPO), nuclear gene encoding mitochondrial protein, mRNA /cds=(177,2414)	1	GCCTGTTGCCCTTTCTGTACCATTTA TTTGCTCCCAATGTTTATGATAAT
4522	db mining	Hs.75093	NM_000302	4557836	procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI) (PLOD), mRNA /cds=(200,2383)	1	TCCTGGATGCCTCTGAAGAGAGGGA CAGACCGTCAGAAACTGGAGAGTTT
4523	db mining	Hs.10712	NM_000314	4506248	phosphatase and tensin homolog (mutated in multiple advanced cancers 1) (PTEN), mRNA /cds=(1034,2245)	1	ACTTAACCATATAAATGTGGAGGCTA TCAACAAAGAATGGGCTTGAAACA
4524	Table 3A	Hs.83848	NM_000365	4507644	triosephosphate isomerase 1 (TP1), mRNA /cds=(34,783)	1	GTGCCTCTGTGCTGTGTATGTGAACC ACCCATGTGAGGGAATAAACCTAG
4525	Table 3A	Hs.78943	NM_000386	4557366	bleomycin hydrolase (BLMH), mRNA /cds=(78,1445)	1	AAACAGACCTAATGCTCCTTGTTCCT AGAGTAGAGTGGAGGGAGGGTGGC
4526	literature	Hs.285401	NM_000395	4559407	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage) (CSF2RB), mRNA /cds=(28,2721)	1	GAGATAGCCTTGCTCCGCCCCCTT GACCTTCAGCAATCACTTCTCTCC
4527	db mining	Hs.283743	NM_000407	9945387	glycoprotein Ib beta mRNA, complete cds /cds=(636,1871)	1	CTGCTGCGTCTCCCTTCCAAACTCTG GTGCTGAATAAACCTTCTGATCT
4528	db mining	Hs.20019	NM_000410	4504376	hemochromatosis (HFE), mRNA /cds=(221,1267)	1	CACTTGGCTGCATAAATGTGGTACAA CCATTCTGTCTTGAAGGGCAGGTG
4529	literature	Hs.8986	NM_000491	11038661	complement component 1, q subcomponent, beta polypeptide (C1QB), mRNA /cds=(63,824)	1	CAGCCAATGGACAGCAGTGGCTTG GTGAATGCTGCTGAGTGAATGAGTA
4530	db mining	Hs.278430	NM_000500	14550408	cytochrome P450, subfamily XXIA (steroid 21-hydroxylase, congenital adrenal hyperplasia), polypeptide 2 (CYP21A2), mRNA /cds=(118,1605)	1	TGCAGAGGATTGAGGCTTAATTCTGA GCTGGCCCTTCCAGCCAATAAAT
4531	db mining	Hs.502	NM_000544	9961245	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP) (TAP2), transcript variant 1, mRNA /cds=(96,2207)	1	TTGACCTTCCACTAGACCATGAGCAC CTGGGCGGAAAGCCATATATCTTA
4532	literature	Hs.83210	NM_000562	4557388	complement component 8, alpha polypeptide (C8A), mRNA /cds=(137,1891)	1	ACAAGCAGACACCTGAACAATCAAC GCCCAATAAAACAAGTAGGATGA
4533	db mining	Hs.68876	NM_000564	10835130	interleukin 5 receptor, alpha (IL5RA), mRNA /cds=(249,1511)	1	TGAGGAAGAAAGCATTTTGCATCAGC CTGGAGTGAACCATGAACCTTGGAT
4534	literature	Hs.241053	NM_000573	10834973	AL572804 cDNA /clone=CS0D1034YD15-(3-prime)	1	GGAATAAGGTGTTGCCTGGAATTTCT GGTGTTGAAGGTGGTCACTGTCT
4535	Table 3A	Hs.89679	NM_000586	10835148	interleukin 2 (IL2), mRNA /cds=(47,517)	1	TGAACAGATGGATTACCTTTTGTCAA AGCATCATCTCAACACTAAGTTGA
4536	literature	Hs.78065	NM_000587	4557386	complement component 7 (C7), mRNA /cds=(0,2531)	1	CCCAGAGTTTTCAGGGAGTACACAG GTAGATTAGTTTGAAGCATTTGACCT
4537	literature	Hs.960	NM_000590	10834979	interleukin 9 (IL9), mRNA /cds=(11,445)	1	TTCCAGAAAGAAAGATGAGAGGGAT GAGAGGCAAGATATGAAGATGAAA
4538	literature	Hs.1285	NM_000606	4557392	complement component 8, gamma polypeptide (C8G), mRNA /cds=(61,669)	1	GGCTGCCCCAGAGCAGTGGGTGG AGTGGTACCTACTATTAAATGTCT
4539	literature	Hs.187988	NM_000615	10834989	neural cell adhesion molecule 1 (NCAM1), mRNA /cds=(201,2747)	1	CCGAGCAAGATCAAAATAAAAAGTG ACACAGCAGCTTACCAGAGCATT
4540	Table 3A	Hs.17483	NM_000618	10835166	chromosome 12p13 sequence /cds=(194,1570)	1	TTTCCTTCAAGCCTAGCCCTTCTCTC ATTATTTCTCTCTGACCCCTCTCC
4541	db mining	Hs.100007	NM_000635	10835184	regulatory factor X, 2 (influences HLA class II expression) (RFX2), mRNA /cds=(159,2330)	1	GGGTCACTGTTCAAGAGGAAAGCA GTTGTGAAGCTACAGAAGCCCAGG
4542	db mining	Hs.25954	NM_000640	10834991	interleukin 13 receptor, alpha 2 (IL13RA2), mRNA /cds=(93,1235)	1	TGAAGACTTTCATATCAAGAGACAT GGTATTGACTCAACAGTTTCCAGT
4543	db mining	Hs.1721	NM_000641	10834993	interleukin 11 (IL11), mRNA /cds=(63,662)	1	GGACTGTCTTCAAGGAGGCTAAGG AGAGAGGCTTCTTGGGATATAGAA



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4544	db mining	Hs.78712	NM_000688	4502024	aminolevulinatase, delta-, synthase 1 (ALAS1), nuclear gene encoding mitochondrial protein, mRNA /cds=(76,1998)	1	TCACTTAACCCCAGGCCATTATCATA TCCAGATGGCTTCAGAGTTGTCT
4545	db mining	Hs.3003	NM_000733	4502670	CD3E antigen, epsilon polypeptide (TT3 complex) (CD3E), mRNA /cds=(54,677)	1	CCACTGGATGGTCATTTGGCATCTCC GTATATGTGCTCTGGCTCCTCAGC
4546	Table 3A	Hs.1349	NM_000758	4503076	colony stimulating factor 2 (granulocyte-macrophage) (CSF2), mRNA /cds=(8,442)	1	CTGGGCCACACTGACCCTGATACAG GCATGGCAGAGAATGGGAATATTT
4547	db mining	Hs.1349	NM_000758	4503076	colony stimulating factor 2 (granulocyte-macrophage) (CSF2), mRNA /cds=(8,442)	1	CTGGGCCACACTGACCCTGATACAG GCATGGCAGAGAATGGGAATATTT
4548	literature	Hs.86958	NM_000874	4504600	interferon receptor ifnar2-1 (splice variant IFNAR2-1) mRNA, complete cds /cds=(328,1321)	1	TGATAGCATTGGTCTTGACAAGCACC ATAGTGACACTGAAATGGATTGGT
4549	literature	Hs.88474	NM_000962	11386140	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase) (PTGS1), mRNA /cds=(5,1804)	1	CTGAGGATGTAGAGAGAACAGGTGG GCTGTATTACGCCATTGGTTGGAA
4550	Table 3A	Hs.180450	NM_001026	14916502	ribosomal protein S24 (RPS24), transcript variant 1, mRNA /cds=(37,429)	1	CTGGCAAAAGCCGAAGGAGTAAAG GTGCTGCAATGATGTTAGCTGTGGC
4551	Table 3A	Hs.113029	NM_001028	14591916	ribosomal protein S25 (RPS25), mRNA /cds=(63,440)	1	TGGTCCAAAGGCCAAAGTTCGGGACA AGCTCAATAACTTAGCTTGTGTTGA
4552	literature	Hs.161305	NM_001057	4507344	tachykinin receptor 2 (TACR2), mRNA /cds=(0,1196)	1	CAACAGGTGTACACTAAGGAGACTT TGTTTCATGGCTGGGACACAGCCC
4553	literature	Hs.1080	NM_001058	7669544	tachykinin receptor 1 (TACR1), transcript variant long, mRNA /cds=(210,1433)	1	GCATGGAAATCCCTTCATCTGGAAC CATCAGAAACACCTCACACTGGG
4554	literature	Hs.942	NM_001059	7669547	tachykinin receptor 3 (TACR3), mRNA /cds=(143,1540)	1	GGCAGCTATGGTCAAATTGAGAAAGG TAGTGTATAAATGTGACAAAGACA
4555	db mining	Hs.86947	NM_001109	4557252	a disintegrin and metalloproteinase domain 8 (ADAM8), mRNA /cds=(9,2483)	1	GCTATCTTGTCTGGTTTTCTTGAGAC CTCAGATGTGTGTTGAGCAGGGCT
4556	literature	Hs.1239	NM_001150	4502094	alanyl (membrane) aminopeptidase (aminopeptidase N, aminopeptidase M, microsomal aminopeptidase, CD13, p150) (ANPEP), mRNA /cds=(120,3023)	1	CCGCCCTGTACCCTCTTTCACCTTTC CCTAAAGACCCTAAATCTGAGGAA
4557	db mining	Hs.507	NM_001264	4502758	comedesmosin (CDSN), mRNA /cds=(14,1603)	1	CATATGGGAGAAGGCCAGTCCCCAG GCATAGGGTTAGCTCAGTTTCCCTC
4558	Table 3A	Hs.74441	NM_001273	4557452	chromodomain helicase DNA binding protein 4 (CHD4), mRNA /cds=(89,5827)	1	TTAATACCAGGAACCCAGCGGCTCTA GCCACTGAGCGGCTAAATGAAATA
4559	db mining	Hs.5057	NM_001304	8051580	carboxypeptidase D (CPD), mRNA /cds=(15,4148)	1	GTGGAGGGGTTTACCACCTTCCTAG GTCGTTCAACCAAGTTTGTGAGGA
4560	db mining	Hs.2246	NM_001308	4503010	carboxypeptidase N, polypeptide 1, 50kD (CPN1), mRNA /cds=(213,1589)	1	GCAACCCCTCAGAAAGGCTTTGCTCC TGCTCTCAGATCAGATCAAGCATT
4561	db mining	Hs.336916	NM_001350	4503256	death-associated protein 6 (DAXX), mRNA /cds=(147,2369)	1	AACATTTGGAGGAAGGTGGGAAGCA GATGACTGAGGAAGGGATGGACTAA
4562	Table 3A	Hs.288036	NM_001402	4503470	tRNA isopentenylpyrophosphate transferase (IPT), mRNA /cds=(60,1040)	1	TGCCCCAGAAAGCTCAGAAAGCTAAAT GAATATTATCCCTAATACCTGCCA
4563	Table 3A	Hs.129673	NM_001416	4503528	eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1), mRNA /cds=(16,1236)	1	AGAGGACTCTTCGAGACATTGAGACC TTCTACAACACCTCCATTGAGGAA
4564	Table 3A	Hs.99855	NM_001462	4503780	formyl peptide receptor-like 1 (FPRL1), mRNA /cds=(772,1827)	1	TGGGGTAAGTGGAGTTGGGAAATAC AAGAAGAGAAAGACCAGTGGGGATT
4565	literature	Hs.198252	NM_001504	4504098	G protein-coupled receptor 9 (GPR9), mRNA /cds=(68,1174)	1	AAACTAAAACCTCATCTTCCCAAGT GCGGGGAGTACAAGGCATGGCGTA
4566	db mining	Hs.113207	NM_001505	4504090	G protein-coupled receptor 30 (GPR30), mRNA /cds=(691,1818)	1	AAAACCTTCCCATAAATGTAAGAAA AGCTGATGAGGCTGGTGACGTTCA
4567	db mining	Hs.278589	NM_001518	14670355	general transcription factor II, i (GTF2I), transcript variant 1, mRNA /cds=(370,3368)	1	TGACATGGTAGCAGAAATAGGCCCTT TTATGTGTTGCTTCTATTTTACCT
4568	db mining	Hs.101840	NM_001531	4504416	major histocompatibility complex, class I-like sequence (HLA-S), mRNA /cds=(5,1030)	1	GCCACAAAATGTTCTTTGTTCTTTGG CTCCAAAAGACTGTGACGCTTTCA
4569	db mining	Hs.81234	NM_001542	4504626	mRNA for KIAA0466 protein, partial cds /cds=(40,3684)	1	CTGAGGCTCTCCCTTTCTCTGTGATT GGACAGTTGACAGCACCAGCAATC
4570	db mining	Hs.22111	NM_001555	4504624	mRNA for KIAA0384 gene, complete cds /cds=(1144,5127)	1	CCCTGTAACCTCCTCACTGTACTGATT TACTGGCGCATGAAATCTATTAA
4571	Table 3A	Hs.285115	NM_001560	4504646	interleukin 13 receptor, alpha 1 (IL13RA1), mRNA /cds=(43,1326)	1	CTTGAGTAAATAAATATTGCTCTTTT GTATGTCAAGCGGGCCGCCACCG
4572	literature	Hs.1211	NM_001611	6138970	acid phosphatase 5, tartrate resistant (ACP5), mRNA /cds=(89,1066)	1	GGGAGGGAGGGAGGGAAAGCTTCTC CCTAAATCAAGCATCTTCTGTGTC
4573	literature	Hs.10247	NM_001627	4502028	mRNA for MEMD protein /cds=(0,1748)	1	TCACAGATGCATATAGACACACATAC ATAATGGTACTCCCAACTGACAA
4574	db mining	Hs.268571	NM_001645	5174774	intergenic region between apoE and apoC1 genes /cds=UNKNOWN	1	GCTGAGGACTCCCGCCATGTGGCCC CAGGTGCCCAATAAAAATCTCTAC



Table 8

4575	db mining	Hs.69771	NM_001710	14550403	B-factor, properdin (BF), mRNA /cds=(129,2423)	1	CAAGATGAGGATTTGGGTTTCTATA AGGGGTTTCCTGCTGGACAGGGGC
4576	literature	Hs.1281	NM_001735	4502506	complement component 5 (C5), mRNA /cds=(12,5042)	1	AAACATGGCCTTTGCTTGAAAGAAAA TACCAAGGAACAGGAACTGATCA
4577	literature	Hs.171763	NM_001771	4502650	CD22 antigen (CD22), mRNA /cds=(56,2599)	1	GTTTGAGATGGACACACTGGTGTGGA TTAACCTGCCAGGGAGACAGAGCT
4578	literature	Hs.83731	NM_001772	4502654	CD33 antigen (gp87) (CD33), mRNA /cds=(12,1106)	1	GSACCAAAGGCTGATTCTTGAGATT TAACTCCACAGGCAATGGGTTT
4579	Table 3A	Hs.340325	NM_001774	4502662	yf59e04.s1 cDNA, 3' end /clone=IMAGE:26202 /clone_end=3'	1	AATATTTGTTTATCCCCAGTTCGCCCT GGAGCCCTCCGCCCTTCACATTCC
4580	literature	Hs.82685	NM_001777	4502672	CD47 antigen (Rh-related antigen, integrin-associated signal transducer) (CD47), mRNA /cds=(106,1077)	1	AAAGTAACTGGTTGTGCACATGAGA CCCTTACGTGATTGTAGTTAAGT
4581	literature	Hs.264190	NM_001780	4502678	cDNA: FLJ22121 fis, clone HEP18876, highly similar to AF191298 vacuolar sorting protein 35 (VPS35) mRNA /cds=UNKNOWN	1	CTCAGCCTCCTCATCTGCGGGAGTG GAATAGTATCCTCCAGGTTTTTCAA
4582	literature	Hs.3107	NM_001784	4502690	CD97 antigen (CD97), mRNA /cds=(70,2298)	1	GGCAGGAGGTTCTCACTGTTGTGAA GGTGTAGACGTTGTGTATGTGTT
4583	Table 3A	Hs.10029	NM_001814	4503140	cathepsin C (CTSC), mRNA /cds=(33,1424)	1	AAGTGGGAATTTTCTGGAAGATGGTC AGCTATGAAGTAATAGAGTTTGCT
4584	db mining	Hs.11	NM_001815	4502792	carcinoembryonic antigen-related cell adhesion molecule 3 (CEACAM3), mRNA /cds=(54,692)	1	GGAAAGATCTGAATAAAGGGGACC
4585	db mining	Hs.119140	NM_001970	4503544	eukaryotic translation initiation factor 5A (EIF5A), mRNA /cds=(43,507)	1	AAATAACTGGCTCCCAGGCTGGCGG TGGTGGCAGCAGTGATCCTGAAC
4586	db mining	Hs.99863	NM_001972	4503548	elastase 2, neutrophil (ELA2), mRNA /cds=(38,841)	1	TGCCCACACCCCACTCTCCAGCATC TGGCACAATAAACATTCTCTGTTT
4587	db mining	Hs.99863	NM_001972	4503548	elastase 2, neutrophil (ELA2), mRNA /cds=(38,841)	1	TGCCCACACCCCACTCTCCAGCATC TGGCACAATAAACATTCTCTGTTT
4588	literature	Hs.193122	NM_002000	4503672	Fc fragment of IgA, receptor for (FCAR), mRNA /cds=(39,902)	1	GCACCCACCTTTCTGCACATAAGTTA TGGTTTTTCCATCTTATCTGCTCT
4589	db mining	Hs.897	NM_002001	4503674	Fc fragment of IgE, high affinity I, receptor for, alpha polypeptide (FCER1A), mRNA /cds=(106,879)	1	AATTGTCAAACACAGCTTGCAATATA CATAGAAACGCTGTGTCTCAAGGA
4590	db mining	Hs.77252	NM_002012	4503718	fragile histidine triad gene (FHIT), mRNA /cds=(362,805)	1	TCCAGAAACATGACAAGGAGGACTTT CCTGCCTCTTGGAGATCAGAGGAG
4591	db mining	Hs.108694	NM_002099	8051602	glycophorin A (includes MN blood group) (GYPA), mRNA /cds=(55,507)	1	TCATAGTTAAATTTTGGTATTCGGGG GGAAGAAATGACCATTTCCTTGT
4592	literature	Hs.342656	NM_002119	4504400	major histocompatibility complex, class II, DN alpha (HLA-DNA), mRNA /cds=(76,828)	1	ACACACATTCTTGCTCTACCCAAAGC TCTGGCTGGCAGCACTAAATGCTT
4593	literature	Hs.342656	NM_002119	4504400	major histocompatibility complex, class II, DN alpha (HLA-DNA), mRNA /cds=(76,828)	1	ACACACATTCTTGCTCTACCCAAAGC TCTGGCTGGCAGCACTAAATGCTT
4594	db mining	Hs.1802	NM_002120	4504402	major histocompatibility complex, class II, DO beta (HLA-DOB), mRNA /cds=(56,877)	1	GCAGTCTCCACAGTCTTCAGAAGACA AATGCTCAGGTAGTCACTGTTTCC
4595	db mining	Hs.279930	NM_002124	4504410	major histocompatibility complex, class II, DR beta 3 (HLA-DRB3), mRNA /cds=(35,835)	1	GCCTCCCGTGCACTGTACTCACCCCT GTACGACAAACACATTACATTATT
4596	db mining	Hs.73885	NM_002127	4504414	HLA-G histocompatibility antigen, class I, G (HLA-G), mRNA /cds=(5,1021)	1	TTTCTGTTCAGAAAAGGGGCTGGG ATGCTCCGCTGCTGTCTCAATT
4597	db mining	Hs.1521	NM_002180	4504622	immunoglobulin mu binding protein 2 (IGHMBP2), mRNA /cds=(49,3030)	1	CGGCCTTCTCCGGTGTCTGTACCAA CTCCTTATTTAAGAACACCTCAG
4598	db mining	Hs.173880	NM_002182	4504660	interleukin 1 receptor accessory protein (IL1RAP), mRNA /cds=(206,1918)	1	GGGACGTTCCATGCCAGGTTAACAA AGAAGTGTGATATAGAGTGTCT
4599	literature	Hs.172689	NM_002183	13324709	interleukin 3 receptor, alpha (low affinity) (IL3RA), mRNA /cds=(146,1282)	1	ATGGGAGATGCCTGTGTAATTCGTC CGAAGCTGCCAGGAAGAAGACAG
4600	literature	Hs.12503	NM_002189	4504648	interleukin 15 receptor, alpha (IL15RA), mRNA /cds=(82,885)	1	CCTCTCCATTGAAGGATTGAGGAAGA AGAAACTCAACTCAGTGCCATTT
4601	literature	Hs.149609	NM_002205	4504750	integrin, alpha 5 (fibronectin receptor, alpha polypeptide) (ITGA5), mRNA /cds=(23,3172)	1	CCTCACCTTGGCACCAGACACCCAG GACTTATTTAACTCTGTTGCAAGT
4602	Table 3A	Hs.149846	NM_002213	4504772	integrin, beta 5 (ITGB5), mRNA /cds=(29,2419)	1	TGCAAAATGTGAGTTTCTCTCCTGTC CGTGTGTTGTTAGTACTTTTATAA
4603	db mining	Hs.78465	NM_002228	7710122	v-jun avian sarcoma virus 17 oncogene homolog (JUN), mRNA /cds=(974,1969)	1	AGCAGGAATTGGTGGCAGATTTTACA AAAGTGTATCCTTCAATTTGGA
4604	db mining	Hs.169824	NM_002258	4504878	killer cell lectin-like receptor subfamily B, member 1 (KLRB1), mRNA /cds=(60,737)	1	TGGATCTGCCAAAAAGAACTAACACC TGTGAGAAATAAAGTGTATCTGTA
4605	db mining	Hs.172195	NM_002408	6031183	mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase (MGAT2), mRNA /cds=(489,1832)	1	TTCTGTACTATTGTGTTTGTAGGTGTG TTTTGGAACCTTCATAGAACACA
4606	literature	Hs.77367	NM_002416	4505188	monokine induced by gamma interferon (MIG), mRNA /cds=(39,416)	1	TGACCCACTTACCTTGATCTCACAG GTAGACAGTATATAACTAACACC

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4507	Table 3A	Hs.926	NM_002463	11342663	myxovirus (influenza) resistance 2, homolog of murine (MX2), mRNA /cds=(104,2251)	1	TTTCCCTGATTATGATGAGCTTCCATT GTTCTGTAAAGCTTGAAGAGGA
4608	db mining	Hs.173084	NM_002470	11342671	myosin, heavy polypeptide 3, skeletal muscle, embryonic (MYH3), mRNA /cds=(84,5906)	1	CACGAGAGTGAAGAGTGAGCCAGCC CTTCTGGAGCAGGAGCAGACAGAA
4609	db mining	Hs.113973	NM_002472	4505300	myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA /cds=(73,5886)	1	AAGAAAGGCACAAAATGTGCTATTTT TGGTCACTTGTCTTATGACGTTTA
4610	db mining	Hs.275163	NM_002512	4505408	non-metastatic cells 2, protein (NM23B) expressed in (NME2), nuclear gene encoding mitochondrial protein, mRNA /cds=(72,530)	1	GTCCCTGGACACAGCTCTTCATTCCA TTGACTTAGAGGCAACAGGATTGA
4611	Table 3A	Hs.85844	NM_002529	4585711	neurotrophic tyrosine kinase, receptor, type 1 (NTRK1), mRNA /cds=(0,2390)	1	GTACCAGCTCTCCAACACGGAGGCA ATCGACTGCATCAGCAGGACGCTG
4612	db mining	Hs.93728	NM_002586	4505624	pre-B-cell leukemia transcription factor 2 (PBX2), mRNA /cds=(0,1292)	1	GGGGGCTAGTTCTCTCCTCACTTGTA AACTTGTGTAGTTTCACAGAAAAA
4613	db mining	Hs.41639	NM_002598	4505654	programmed cell death 2 (PDCD2), mRNA /cds=(29,1063)	1	ACAGAAGAATTGTGTGGAAGCAGGA TGTAACAGATACACCGTAAAGGCA
4614	Table 3A	Hs.181013	NM_002629	4505752	phosphoglycerate mutase 1 (brain) (PGAM1), mRNA /cds=(31,795)	1	CCCTGCCACATGGGTCCAGTGTTCAT CTGAGCATAACTGTACTAAATCCT
4615	db mining	Hs.288579	NM_002644	11342673	polymeric immunoglobulin receptor (PIGR), mRNA /cds=(156,2450)	1	CTTGAAGGAAGAGGGACAGGGTGG GAGAGCTGATTGCAGAAAGGAGAGA
4616	db mining	Hs.261285	NM_002669	4505894	pleiotropic regulator 1 (PRL1, Arabidopsis homolog) (PLRG1), mRNA /cds=(0,1544)	1	AAACCATTAAAGTATACAGAGAGGAT GACACAGCCACAGAAAGAACTCAT
4617	Table 3A	Hs.79402	NM_002694	14702172	polymerase (RNA) II (DNA directed) polypeptide C (33kD) (POLR2C), transcript variant gamma, mRNA /cds=(57,884)	1	AACATGCACAAAGCAGTTAATTAGGC AGCCTGGAGAAAAACCAGAGATCCA
4618	Table 3A	Hs.77202	NM_002738	4506068	protein kinase C, beta 1 (PRKCB1), mRNA /cds=(136,2151)	1	ACTTCAGAAACTCATCAATGAACA GACAAATGTCAAACTACTGTGTCT
4619	literature	Hs.180533	NM_002756	4506098	mitogen-activated protein kinase kinase 3 (MAP2K3), mRNA /cds=(337,1293)	1	GCTTTATGGGTTTGGCTGTGTTTCTT GCATGGTTTGGAGCTGATCGCTT
4620	literature	Hs.118825	NM_002758	14589899	mitogen-activated protein kinase kinase 6 (MAP2K6), transcript variant 1, mRNA /cds=(340,1344)	1	TTCTTTCTTGGCCTCAAGTTCAATATG GAGAGGATTGCTTCCCTGAATCC
4621	db mining	Hs.241561	NM_002770	4506146	protease, serine, 2 (trypsin 2) (PRSS2), mRNA /cds=(6,749)	1	AACTATGTGGACTGGATTAAGGACAC CATAGCTGCCAACAGCTAAAGCCC
4622	db mining	Hs.928	NM_002777	7382457	proteinase 3 (serine proteinase, neutrophil, Wegener granulomatosis autoantigen) (PRTN3), mRNA /cds=(48,818)	1	CCTGACTTCTTACGCGGGTAGCCCT CTACGTGGACTGGATCCGTTCTAC
4623	db mining	Hs.78575	NM_002778	11388146	prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy) (PSAP), mRNA /cds=(38,1612)	1	AGCCAGCAGGACATGAAGTTGCTATT AAATGGACTTCGTGATTTTTGTTT
4624	db mining	Hs.250655	NM_002823	4506278	prothymosin, alpha (gene sequence 28) (PTMA), mRNA /cds=(155,487)	1	TTTGGCCTGTTTTGATGTATGTGTGA AACAAATGTTGTCCAACAATAAACA
4625	db mining	Hs.82547	NM_002888	4508424	retinoic acid receptor responder (tazarotene induced) 1 (RARRES1), mRNA /cds=(36,722)	1	AAC TTGTGCCACAAGAGTTACAATCA AAGTGGTCTCCTTAGACTGAATTC
4626	db mining	Hs.106061	NM_002904	14670267	RD RNA-binding protein (RDBP), mRNA /cds=(108,1250)	1	AAAGCCTTTAAAAACGGCTGTGAGGT TTGATCTCAGTGTAAACAATAGGC
4627	db mining	Hs.139226	NM_002914	4506486	replication factor C (activator 1) 2 (40kD) (RFC2), mRNA /cds=(207,1271)	1	GAAAATGCGCCTTAGGCTGAGCCAA CATGACTGTCCCCAACTCCAGTG
4628	db mining	Hs.123638	NM_002918	4508492	regulatory factor X, 1 (influences HLA class II expression) (RFX1), mRNA /cds=(93,3032)	1	CCAGCTTCGGTTCCTTCCACCTCATC CGGCTGCTCTACGACGAGTACATG
4629	db mining	Hs.166019	NM_002919	4506494	regulatory factor X, 3 (influences HLA class II expression) (RFX3), mRNA /cds=(8,2131)	1	AAGATTGGTGCTCCTGATAAAGCAAA GGGCTAGGAATACAATGGAAAGGA
4630	db mining	Hs.21273	NM_002920	15011897	transcription factor NYD-sp10 mRNA, complete cds /cds=(109,2034)	1	TCATTGGTACACATTCTGTATGCTGC TGTTTTCAAGTTGGCAAAATTAAGC
4631	literature	Hs.73839	NM_002935	4506550	ribonuclease, RNase A family, 3 (eosinophil cationic protein) (RNASE3), mRNA /cds=(63,545)	1	TATCAGCAACTGCTCCTCATCAGTCTC CATACCCCTTCAGCTTTCCTGAGC
4632	Table 3A	Hs.74267	NM_002948	4506602	60S ribosomal protein L15 (EC45) mRNA, complete cds /cds=(34,648)	1	GCAGCTTGGAGAAGGCGCAATACTC CAGCTCCACCGTTACCGTAATATA
4633	Table 3A	Hs.74267	NM_002948	4506602	60S ribosomal protein L15 (EC45) mRNA, complete cds /cds=(34,648)	1	GCAGCTTGGAGAAGGCGCAATACTC CAGCTCCACCGTTACCGTAATATA
4634	db mining	Hs.74592	NM_002971	4506790	special AT-rich sequence binding protein 1 (binds to nuclear matrix/scaffold-associating DNA's) (SATB1), mRNA /cds=(214,2505)	1	CGGAGCCTCAAACAGCATTATACCT TCTGTGATTATGATTCCTCTCCT

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4635	Table 3A	Hs.89714	NM_002994	4506848	small inducible cytokine subfamily B (Cys-X-Cys), member 5 (epithelial-derived neutrophil-activating peptide 78) (SCYB5), mRNA /cds=(106,450)	1	ATGTTTCTGGGGAATATGTTAGAGA ATTCCCTTACTCTTGATTGTGGGA
4636	db mining	Hs.82109	NM_002997	4506858	syndecan 1 (SDC1), mRNA /cds=(205,1137)	1	AGAGTGATAGTCTTTTGTCTTTTGGCA AAACTCTACTTAATCCAATGGGTT
4637	db mining	Hs.301698	NM_003033	4506950	BAC 180i23 chromosome 8 map 8q24.3 beta-galactoside alpha-2,3-sialyltransferase (SIAT4A) gene, complete sequence /cds=(12296,13318)	1	GCCTCTTGCTTGCGCTGATAACCCCTG TCATCTTCCCAAAGCTCATTATG
4638	db mining	Hs.78403	NM_003083	4507102	small nuclear RNA activating complex, polypeptide 2, 45kD (SNAPC2), mRNA /cds=(24,1028)	1	TTCAACTGACCAGTCGTGGTTACTCC CTGCTGCCAGGTCTTCCCTTCC
4639	literature	Hs.80738	NM_003123	4507180	gene for sialoporphin (CD43) /cds=(159,1361)	1	GGCTGGCACCTCTCAACGCTGTGTGG ACTGAATGAATAAACCCCTCTCATC
4640	db mining	Hs.81884	NM_003167	4507306	sulfotransferase family, cytosolic, 2A, dehydroepiandrosterone (DHEA) - preferring, member 1 (SULT2A1), mRNA /cds=(52,809)	1	TGGGAATAACGTCCTCAAAACACTCTGG ATCTTATATGGAGAATGACATTGA
4641	literature	Hs.7510	NM_003188	4507380	DNA sequence from clone RP1-154G14 on chromosome 6q15-16.3. Contains the 3' end of the MAP3K7 gene for mitogen-activated protein kinase kinase kinase 7 (TGF-beta activated kinase 1, TAK1), ESTs, STSs and GSSs /cds=(0,1700)	1	AGTACTGAACTCAGTTCATCCGTA AATATGTAAAGGTAAGTGGCAGCT
4642	db mining	Hs.250641	NM_003290	4507650	tropomyosin 4 (TPM4), mRNA /cds=(50,798)	1	GCCCCAACTTCATTCCCATCTTCAGG GAACAGCAAATTGAGGATTTACTT
4643	Table 3A	Hs.178551	NM_003316	10835036	ribosomal protein L8 (RPL8), mRNA /cds=(43,816)	1	CCGTTGAATGAGTGTGTTTGTACAT AACTTCAGATACTTGTGAACATGC
4644	Table 3A	Hs.4248	NM_003371	4507870	vav 2 oncogene (VAV2), mRNA /cds=(5,2641)	1	TTTCTTGGGAGAGTCACTCCAGCCCT GAAGTCTGTCTAGCTCCTCTGT
4645	Table 3A	Hs.89414	NM_003467	4503174	chemokine (C-X-C motif), receptor 4 (fusin) (CXCR4), mRNA /cds=(88,1146)	1	TCAGGAGTGGGTGATTTCAGCACCT ACAGTGACAGTCTTGATTAAGT
4646	Table 3A	Hs.100293	NM_003605	6006036	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase) (OGT), mRNA /cds=(2039,4801)	1	TTAGGAGTGATTACTAATTATCAAGG GCACAGTTGTGGTACTGTCATTGA
4647	db mining	Hs.24640	NM_003612	4504236	sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A (SEMA7A), mRNA /cds=(17,2017)	1	CGGACGGAAGGACGGAAAAAGCTCT ATTTTTATGTTAGGCTTATTTTCATG
4648	db mining	Hs.131814	NM_003747	4507612	TRF1-interacting ankyrin-related ADP-ribose polymerase mRNA, partial cds /cds=(0,3284)	1	AGTCCCTGACAGCCTAGAAATAAGCT GTTTGTCTTCTATAAAGCATTGCT
4649	db mining	Hs.321231	NM_003779	13929468	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 3 (B4GALT3), mRNA /cds=(262,1443)	1	GCATTTTCTGCCTATGCTGGAATAGC TCCCTCTTCTGGTCTGGCTCAGG
4650	Table 3A	Hs.151461	NM_003797	14523051	embryonic ectoderm development (EED), mRNA /cds=(34,1317)	1	AGTAAGGGCAGCTAGAGCATTTAGAG TTGTCTTTCAGCATTCATCAGGC
4651	Table 3A	Hs.103755	NM_003821	4506538	receptor-interacting serine-threonine kinase 2 (RIPK2), mRNA /cds=(0,1622)	1	TGGGTCTTCAGCCTTACCCGGAATA CTTGTGGTTTCTAGATCACCATTCT
4652	db mining	Hs.184376	NM_003825	4507096	Homo sapiens, synaptosomal-associated protein, 23kD, clone MGC:5155 IMAGE:3481227, mRNA, complete cds /cds=(73,708)	1	ACAAGGCTGACACCAACAGAGATCGT ATTGATATTGCCAATGCCAGAGCA
4653	db mining	Hs.158315	NM_003853	4504656	interleukin 18 receptor accessory protein (IL18RAP), mRNA /cds=(483,2282)	1	AGCTACTTCTGCCTTATGGCTAGGGA ACTGTCATGTCTACCATGTATTGT
4654	db mining	Hs.102865	NM_003854	4504662	interleukin 1 receptor-like 2 (IL1RL2), mRNA /cds=(134,1822)	1	TGACTTGTGTTTGTCTCATGTCTCCTC ATTCCTACACCTATTTCTGCTGC
4655	db mining	Hs.159301	NM_003855	4504654	interleukin 18 receptor 1 (IL18R1), mRNA /cds=(24,1649)	1	CTGTGAACCGTCAGTTCGGAAGGCT GGTTAGAACATGTGGGAGCAACAT
4656	db mining	Hs.35947	NM_003925	4505120	methyl-CpG binding domain protein 4 (MBD4), mRNA /cds=(176,1918)	1	GCCTAGTGTGTGTCTTTCTTAATGT GTGTGCCAATGGTGGATCTTTGCT
4657	db mining	Hs.287832	NM_003953	4506356	myelin protein zero-like 1 (MPZL1), mRNA /cds=(132,941)	1	ACCAAACCTGGACTCTCGTGACAGAAA TGAGCCCATACACATGTAGCC
4658	Table 3A	Hs.108371	NM_003973	4506600	E2F transcription factor 4, p107/p130-binding (E2F4), mRNA /cds=(62,1303)	1	GCACCTGCTCCAAAGGCATCTGGCA AGAAAGCATCAAGTGGCAATCAATAA
4659	Table 3A	Hs.155101	NM_004046	4757809	mRNA for KIAA1578 protein, partial cds /cds=(0,3608)	1	CTCCTGTGGATTACATCAAATACCA GTTTCAGTTTTGTCAATTGTTCTAGT
4660	Table 3A	Hs.238990	NM_004064	4757961	Homo sapiens, Similar to cyclin-dependent kinase inhibitor 1B (p27, Kip1), clone MGC:5304 IMAGE:3458141, mRNA, complete cds /cds=(377,973)	1	GCCAACAGACAGAGAAATGTTTC AGACGGTTCCTCCAAATGCCGGTTC

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4661	Table 3A	Hs.239760	NM_004077	4758075	Homo sapiens, clone MGC:19593 IMAGE:3542491, mRNA, complete cds /cds=(118,1518)	1	CTCTAGAAAGGCCCAAGTCCATGAGC ACAGAGGGTCTGATGAAGTTTGTG
4682	db mining	Hs.272537	NM_004088	4758185	deoxynucleotidyltransferase, terminal (DNTT), mRNA /cds=(0,1532)	1	AGACCAAGAGGATATTCCTCAAAGCA GAAAGTGAAGAAGAAATTTTTCGCG
4663	db mining	Hs.75450	NM_004089	4758197	mRNA for GILZ, complete cds /cds=(233,637)	1	TGGAGAAGTCCAGTCCCTGTCTGAGC CCTGAAGAGCCAGCTCCCGAATCC
4664	db mining	Hs.32981	NM_004186	4759089	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F (SEMA3F), mRNA /cds=(78,2435)	1	GAAGTAGACTTTCTGTCTCACACCG AAGAACCCGAGTGAGCAGGAGGGA
4665	db mining	Hs.444	NM_004197	4759179	serine/threonine kinase 19 (STK19), transcript variant 2, mRNA /cds=(128,1234)	1	GTGGGATTCTGGGGAGGCTGGTGA AGGAGGGCAGGGTTCTTTCTCTAC
4666	db mining	Hs.74115	NM_004258	4758589	immunoglobulin superfamily, member 2 (IGSF2), mRNA /cds=(21,3086)	1	CTATAGCTTCATGACCGTAACATGTG ACCTGTGTGCTGGCAGGAGACTCG
4667	db mining	Hs.25887	NM_004263	4759093	mRNA; cDNA DKFZp761O15121 (from clone DKFZp761O15121); complete cds /cds=(111,2423)	1	ATGATCCCATGTTGCAATATGGAGT CTCTGCCCTGAGATCTTCCCCTATC
4668	Table 3A	Hs.184211	NM_004279	4758733	peptidase (mitochondrial processing) beta (PMPCB), mRNA /cds=(13,1482)	1	TGGTCAGTCTTTGTCTCTGAGAAAT TATGTTGGAAGCAGCATACTTTCA
4669	db mining	Hs.18142	NM_004313	4757779	arrestin, beta 2 (ARRB2), mRNA /cds=(53,1282)	1	CCCCAAGATACACACTGGACCCCTCTC TTGCTGAATGTGGGCATTAAATTTT
4670	literature	Hs.54457	NM_004356	4757943	CD81 antigen (target of antiproliferative antibody 1) (CD81), mRNA /cds=(238,948)	1	TTCTAACACGTCGCCCTTCACTGTAA TCACAACATCCTGACTCCGTCATT
4671	db mining	Hs.42853	NM_004381	14577922	cAMP responsive element binding protein-like 1 (CREBL1), mRNA /cds=(33,2144)	1	TTTTTCATTTTGGAGCTAGTTACTGG GAGTAAGGGAGGGTGGGGTGGGGG
4672	db mining	Hs.318546	NM_004390	4758095	cDNA: FLJ22499 fis, clone HRC11250, highly similar to HSCATHH mRNA for cathepsin H (EC 3.4.22.16) /cds=UNKNOWN	1	GGGACTGTCTTTTCTGTATTTCGCTGT TCAATAAACATTGAGTGAGCACCT
4673	literature	Hs.318546	NM_004390	4758095	cDNA: FLJ22499 fis, clone HRC11250, highly similar to HSCATHH mRNA for cathepsin H (EC 3.4.22.16) /cds=UNKNOWN	1	GGGACTGTCTTTTCTGTATTTCGCTGT TCAATAAACATTGAGTGAGCACCT
4674	Table 3A	Hs.124024	NM_004416	4758201	deltex (Drosophila) homolog 1 (DTX1), mRNA /cds=(503,2385)	1	AGAGAAGACTCATCTTCACTATCGGC ACGTCACACACACGCGGCGAGTCG
4675	Table 3A	Hs.74088	NM_004430	4758251	early growth response 3 (EGR3), mRNA /cds=(357,1520)	1	AAACCGAAATATTGAAATGGTGTAA GTTGTACCAATTGCACTGTGAGCA
4676	db mining	Hs.278611	NM_004482	9945386	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyl-galactosaminyltransferase 3 (GalNAc-T3) (GALNT3), mRNA /cds=(0,1901)	1	AGGTGGGGGAAATGAAATTTGTATG CTGAATTTCTAAGCGCCTATTGTT
4677	db mining	Hs.73734	NM_004488	4758459	glycoprotein V (platelet) (GP5), mRNA /cds=(270,1952)	1	GTGGATGTGGAGCAGGAGAGCTGGA TCGTGGCATTGTCTTCTGGGTCTCG
4678	db mining	Hs.182447	NM_004500	14110430	heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRPC), transcript variant 1, mRNA /cds=(191,1102)	1	AAAGTTGATAGTGTGGGATTTTGTG AACAGCCTGATGTTTGGGACCTTT
4679	db mining	Hs.111065	NM_004505	4758563	ubiquitin specific protease 6 (Tre-2 oncogene) (USP6), mRNA /cds=(1696,4056)	1	TGTGGTTGCCTCTATGTGCTGTTTTT CCTCATACAAGTAAACACAGAAAG
4680	Table 3A	Hs.76038	NM_004508	4758583	isopentenyl-diphosphate delta isomerase (IDI1), mRNA /cds=(50,736)	1	CCCAACTGAGGACCAGTGTCTACAGA GTCAGGAAATATTGTAGGGAGAAA
4681	db mining	Hs.296281	NM_004514	4758599	interleukin enhancer binding factor 1 (ILF1), mRNA /cds=(197,2164)	1	TGTTTGTCTTTTGTGTTGACTTTGTC CCTGGCAAAATTTCCACTCTGA
4682	db mining	Hs.172674	NM_004555	4758803	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3 (NFATC3), mRNA /cds=(210,3418)	1	AGGTGACCTGGTTACTTAGCTAGGAT TGGTGATTGTACTGCTTTATGGT
4683	Table 3A	Hs.78920	NM_004581	4758015	Rab geranylgeranyltransferase, alpha subunit (RABGGTA), mRNA /cds=(274,1977)	1	CCCTACCCTTGCCCTTTAACTATTG GGACTGAATAAAGATGGAGAGGC
4684	db mining	Hs.90957	NM_004620	4759253	TNF receptor-associated factor 6 (TRAF6), mRNA /cds=(221,1789)	1	GGGCTTTTGTCTGCTGTATTTTATT GTCAGAAAGTCCAGACTCAAGAGT
4685	db mining	Hs.25333	NM_004633	4758597	interleukin 1 receptor, type II (IL1R2), mRNA /cds=(61,1257)	1	TGGCTGTAGCTGTGCTATGGCCTCATC ATCAAGACTTTCAATCCTATCCCA
4686	db mining	Hs.82222	NM_004636	4759091	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B (SEMA3B), mRNA /cds=(235,2484)	1	GGGCGAGGCAGGCCGACTGTACTAA AGTAACGCAATAACGCATTATCAG
4687	db mining	Hs.332229	NM_004669	4758005	zh68e05.s1 cDNA, 3' end /clone=IMAGE:417248 /clone_end=3'	1	GTACGCCGCTACCTGGACAGCGCGA TGCAGGAGAAAGAGTTCAAATACAC
4688	Table 3A	Hs.77324	NM_004730	4759033	eukaryotic translation termination factor 1 (ETF1), mRNA /cds=(135,1448)	1	TGCAGAGAGATACTAAGCAGCAAAAT CTTGGTGTGTGATGTACAGAAAT

Table 8

4689	Table 3A	Hs.328159	NM_004735	4758689	leucine rich repeat (in FLII) interacting protein 1 (LRRFIP1), mRNA /cds=(178,2532)	1	GGATAACAAGTAAATGTCTGAAAGCA TGAGGGGCTTTATTTGCCCTTACC
4690	db mining	Hs.107526	NM_004776	13929470	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5 (B4GALT5), mRNA /cds=(112,1278)	1	TGAGCTTGCTCTTACGTTTTAAGAGG TGCCAGGGGTACATTTTGCACCTG
4691	Table 3A	Hs.49587	NM_004811	4758669	leupaxin (LPXN), mRNA /cds=(93,1253)	1	ACTGGACAACCTTTGAGTACTGACATC ATTGATAAATAAAGCTGGCTTGTGG CGCAGGGTCTACGAAGAAATAGGGTG AAAAACCTCAGAAAGGAAAACTCCA AGGTTTTGTCTGGTTGCATATAATCTT TGCTCTTTTAAAGCTCTGTGAGC CCTTGCAGACCCACCCCTGCCTG CTCTCTTCCCTACAACCTAGGTACAG
4692	db mining	Hs.24395	NM_004887	4757869	NJAC protein (NJAC) mRNA, complete cds /cds=(7,306)	1	GCCCCTAAAGGCAAGAAAGAAAGTA AAAGACCTTGGCTCATAGAAAGTC GGAGTTGCACTCTGGGTGGGAAGCA CTCAATAAAGATGCGTGGTGTAA AGCTTTTGAAGTGGAAAGGTCAATT TTGTGCAATTTCCCAATTTCTTGT
4693	Table 3A	Hs.145698	NM_004902	4757925	splicing factor (CC1.3) (CC1.3), mRNA /cds=(149,1723)	1	ACCTCCTTATTGAAGGGAAGAGGGAC CAGCATGAGGCTGAGGCTGAGG
4694	db mining	Hs.129738	NM_004977	4826787	potassium voltage-gated channel, Shaw-related subfamily, member 3 (KCNC3), mRNA /cds=(295,2568)	1	GGTATCTCCACACAGCCTGGCACTC CAACCGTACCCTTTATGAGACCTG
4695	db mining	Hs.279946	NM_004990	14043021	methionine-IRNA synthetase (MARS), mRNA /cds=(23,2725)	1	AAGGATGGTCACACACCAGCACTTTA TACACTTCTGGCTCAGAGGAAAGT ATCATCTGCCAGCAGCACTCTCCCC GTTCTCCAGCGTAGACTACATTT AGTGCTACACTCGTCTCACTGTGTTG TTTACTTCCCAAAATGGACCTT
4696	db mining	Hs.927	NM_004997	4826841	myosin-binding protein H (MYBPH), mRNA /cds=(28,1458)	1	ACGCTACTATTACGACAAAACATCA TCCACAAGACAGCGGGGAAACGCT
4697	Table 3A	Hs.180610	NM_005066	4826997	splicing factor proline/glutamine rich (polypyrimidine tract-binding protein-associated) (SFPQ), mRNA /cds=(85,2208)	1	TTTGAGAGGGTAGGAGGGTGGGAAG GAAACAACCATGTCTTTTCAAGAGT
4698	literature	Hs.100001	NM_005074	4827009	solute carrier family 17 (sodium phosphate), member 1 (SLC17A1), mRNA /cds=(12,1415)	1	CATGCTCAGTATCATTGTGGAGAACC AAGAGGGCCTCTTAAGTGAACAA
4699	db mining	Hs.81737	NM_005155	6325470	inactive palmitoyl-protein thioesterase-2i (PPT2) mRNA, complete cds /cds=(568,1473)	1	GACCGGCTTCCCCTGTGAGCAGCAG AGCAGCACATAAATGAGGCCACTG
4700	db mining	Hs.179735	NM_005167	4885066	ras homolog gene family, member C (ARHC), mRNA /cds=(76,657)	1	GAAGATACCAACCTGTGTGCCATCCA CGCTAAGAGAGTACCATCATGCCC GTTATCACTCTGCCTGTGTATAGTCA GATAGTCCATGCGAAGGCTGTATA ACTGACAGAGTGAACACAGAAATAG CTTTCTTCTTAAAGGGGATTGTT TAAGCCAGCACTCACACCACTAACAT GCCCTGTCAGCTACTCCCACTCC
4701	literature	Hs.113222	NM_005201	13929430	chemokine (C-C motif) receptor 8 (CCR8), mRNA /cds=(120,1187)	1	GGATGTTTCTAGTTGTGCATGAATG CTGGCAACTAGTAAGTTTGACA
4702	db mining	Hs.181128	NM_005229	11496880	DNA sequence from PAC 212G6 on chromosome Xp11.3-p11.4. Contains synapsin 1, brain protein 4.1, properdin, tyrosine kinase (ELK1) oncogene, ESTs, STS, GSS /cds=(9150,10436)	1	CCCAATAGTAATGCTTTAGAGGGAG GCAGTCATATCTCTGTGTGCAGAT
4703	Table 3A	Hs.248109	NM_005238	4885218	v-ets avian erythroblastosis virus E26 oncogene homolog 1 (ETS1), mRNA /cds=(278,1803)	1	ATGTGTAGGAGGAAGAGTTCAAGTG GAAAAGGAGGAGCTACTCTCAGGC
4704	Table 3A	Hs.85146	NM_005239	4885220	chromosome 21 derived BAC containing erythroblastosis virus oncogene homolog 2 protein (ets-2) gene, complete cds /cds=(290,1699)	1	CCCCTTCTCAGACTGACCTGTGTTTC CTTCCCTGTTCTCTTTCTATTAA AAACTCTACCAAGGAGGATGCACTGG GCCTGCCTGCGGAACAGGTATGT CCCTTGGCACGTAACAGACTACTAG ACTTATTGTAGGTTGCTTTGAGCT
4705	db mining	Hs.129953	NM_005243	4885224	Ewing sarcoma breakpoint region 1 (EWSR1), transcript variant EWS, mRNA /cds=(43,2013)	1	CAAAGGCCAGCCAGCTTGGGAGCAG CAGAGAAATAACAGCAATTTCTGAT
4706	db mining	Hs.289098	NM_005265	4885270	kidney gamma-glutamyl transpeptidase type II mRNA, 3' end /cds=(0,596)	1	
4707	Table 3A	Hs.181307	NM_005324	4885384	H3 histone, family 3A (H3F3A), mRNA /cds=(374,784)	1	
4708	Table 3A	Hs.79334	NM_005384	4885516	nuclear factor, interleukin 3 regulated (NFIL3), mRNA /cds=(213,1601)	1	
4709	db mining	Hs.297939	NM_005385	6631099	cathepsin B (CTSB), mRNA /cds=(177,1198)	1	
4710	db mining	Hs.78824	NM_005424	4885630	tyrosine kinase with immunoglobulin and epidermal growth factor homology domains (TIE), mRNA /cds=(36,3452)	1	
4711	Table 3A	Hs.181195	NM_005494	4885494	Homo sapiens, MRJ gene for a member of the DNAJ protein family, clone MGC:1152 IMAGE:3346070, mRNA, complete cds /cds=(163,1143)	1	
4712	db mining	Hs.153299	NM_005510	5031670	DOM-3 (C. elegans) homolog Z (DOM3Z), transcript variant 2, mRNA /cds=(129,1319)	1	
4713	db mining	Hs.77961	NM_005514	5031742	major histocompatibility complex, class I, B (HLA-B), mRNA /cds=(0,1088)	1	
4714	literature	Hs.279853	NM_005516	5031744	HSPC018 protein (HSPC018), mRNA /cds=(148,651)	1	
4715	db mining	Hs.80288	NM_005527	5031788	heat shock 70kD protein-like 1 (HSPA1L), mRNA /cds=(0,1925)	1	
4716	db mining	Hs.171776	NM_005536	8393607	inositol(myo)-1(or 4)-monophosphatase 1 (IMPA1), mRNA /cds=(98,931)	1	
4717	db mining	Hs.102171	NM_005545	5031808	immunoglobulin superfamily containing leucine-rich repeat (ISLR), mRNA /cds=(98,1384)	1	

Table 8

4718	literature	Hs.150101	NM_005561	7669500	lysosomal-associated membrane protein 1 (LAMP1), mRNA /cds=(190,1440)	1	GTGAGATCGGTGCGTTCTCTGATGT TTTGCCGTGGCTTGGGGAATTGTAC
4719	db mining	Hs.154970	NM_005653	5032174	transcription factor CP2 (TFCP2), mRNA /cds=(508,1860)	1	GAACCTTCAGGAAGAAGCATGTTTAA TTCTGGACACAATGAAAGAAACCA
4720	Table 3A	Hs.82173	NM_005655	5032176	TGF $\beta$ inducible early growth response (TIEG), mRNA /cds=(123,1565)	1	TTGGGTGTAGATTCTGACATCAAAA CTTGACCCCTGGAAAAACAAAGT
4721	db mining	Hs.200600	NM_005698	5032076	secretory carrier membrane protein 3 (SCAMP3), mRNA /cds=(96,1139)	1	CAACCCAGCTTCCTCTGCTGTGCCA CGGCTGTTGCTTCGGTTATTTAA
4722	db mining	Hs.157144	NM_005819	5032130	syntaxin 6 (STX6), mRNA /cds=(0,767)	1	ATAGCCATGCTCTTTTGCAGTCTGT GGTTGTGCTCATCCTCTCTCTAGT
4723	db mining	Hs.17704	NM_005844	5031730	PERB11 family member in MHC class I region (HCGDX), mRNA /cds=(37,270)	1	ACATGAGCTTCTACCTCCAGATGTGC CAGGGTGCATCTCAATAAAGTGG
4724	db mining	Hs.135194	NM_005849	5031672	immunoglobulin superfamily, member 6 (IGSF6), mRNA /cds=(44,769)	1	ACTGAAAAGACAAGTGGCTACAAAGA AGGATGTGAGAAATGTAAGGAAACT
4725	db mining	Hs.4953	NM_005895	5174440	golgi autoantigen, golgin subfamily a, 3 (GOLGA3), mRNA /cds=(269,4881)	1	AAGTTGTGGCTGTTCTTGGGAAAGGG GTCACCGTGTCTGACAAAGGTGAA
4726	db mining	Hs.211580	NM_005931	5174564	MHC class I polypeptide-related sequence B (MICB), mRNA /cds=(5,1156)	1	CCCCTGCCCCGTACACCGTATTATG CATTACTCTGTGTCTACTATTATGT
4727	Table 3A	Hs.68583	NM_005932	5174566	mitochondrial intermediate peptidase (MIPEP), nuclear gene encoding mitochondrial protein, mRNA /cds=(74,2215)	1	GCTGTGAGAGCTTGTCTCTGATTGTT TCATTGTTGCTTCTGTAATTCTG
4728	Table 3A	Hs.54452	NM_006060	5174500	zinc finger protein, subfamily 1A, 1 (Ikaros) (ZNFN1A1), mRNA /cds=(168,1727)	1	ACCAACACTGTCCCAAGGTGAAATGA AGCAACAGAGAGGAAATTTGTACAT
4729	db mining	Hs.292276	NM_006068	5174720	qd64a01.x1 cDNA, 3' end /clone=IMAGE:1734216 /clone_end=3'	1	TGCTCAGTTTTTCAGCTCCTCTCCAC TCTGCTTTCCCAATGGATTCTGT
4730	db mining	Hs.131342	NM_006072	5174670	small inducible cytokine subfamily A (Cys-Cys), member 26 (SCYA26), mRNA /cds=(0,284)	1	ATATTCACACCAAAAGAGGCAAGAA AGTCTGTACCCATCCAGGAAAAA
4731	db mining	Hs.2414	NM_006080	5174672	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (SEMA3A), mRNA /cds=(15,2330)	1	GCTGCATTACCTCTAGAAACCTCAAA CAAGTAGAAACTTGCCTAGACAAT
4732	db mining	Hs.2654	NM_006081	5174562	MHC binding factor, beta (MHCBBF), mRNA /cds=(90,1286)	1	TCCAAGTCGAAATCGCTGCTGAGGCT GAGATGAAGAAAGAAAGTCCAAA
4733	literature	Hs.125359	NM_006288	5454117	Homo sapiens, clone MGC:846 IMAGE:3507917, mRNA, complete cds /cds=(60,545)	1	CATCTCCTCCAGAACGTACAGTGC TCAGAGACAACTGGTCAAGTGTG
4734	db mining	Hs.23168	NM_006313	14149826	ubiquitin specific protease 15 (USP15), mRNA /cds=(9,2867)	1	TTTGTCTGCATTGAGTTCACCTTGAG TTTACATTGAAATGTGCAATGTTT
4735	db mining	Hs.171921	NM_006379	5454047	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C (SEMA3C), mRNA /cds=(562,2817)	1	AGTTCCTTTATTTACATAAGCCCAA ACTGATAGACAGTAACGGTGT
4736	db mining	Hs.240534	NM_006411	5453717	1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha)	1	GGAGAGGGTGGGACCCAGTTTTGCG TGGTTGGTTTTTATTAATTATCTGG
4737	db mining	Hs.181368	NM_006445	5453983	U5 snRNP-specific protein (220 kD), ortholog of S. cerevisiae Prp8p (PRP8), mRNA /cds=(41,7048)	1	CCTCTTTCCCTCTGCTGTGCTTGTG TTGTTGACCTCCTGATGGCTTGTG
4738	db mining	Hs.239506	NM_006561	5729815	mab-21 (C. elegans)-like 1 (MAB21L1), mRNA /cds=(818,1897)	1	CTGATTCTTCTGCTCCTATTGTGAAC ATAACCGTGTAGTTGAAACAGTCA
4739	db mining	Hs.34526	NM_006564	5730105	G protein-coupled receptor (TYMSTR), mRNA /cds=(81,1109)	1	TTTCCAATGTCTGCCACACAAACGTA TGTAATGTATATACCCACACACA
4740	db mining	Hs.86998	NM_006599	5729944	nuclear factor of activated T-cells 5, tonicity-responsive (NFAT5), mRNA /cds=(318,4913)	1	TCCTGAGAAACACACATTTTCCCC ATGAACGGTGTCTTCTGAAGTCT
4741	db mining	Hs.167751	NM_006604	5730012	ret finger protein-like 3 (RFPL3), mRNA /cds=(292,1158)	1	TATTGCCACCATCCAACCTATTGAGT CTTATGGTTCACATCTGTTTCCCT
4742	db mining	Hs.157427	NM_006605	5730010	ret finger protein-like 2 (RFPL2), mRNA /cds=(292,1158)	1	AGTCCTATGGTTCACATCTGTTTCCCT ATAGAAATGTCCTGTTATCTGGG
4743	db mining	Hs.74861	NM_006713	5729967	activated RNA polymerase II transcription cofactor 4 (PC4), mRNA /cds=(0,383)	1	AAACCCAGGAAGAAAGGATTTCCTTT AAATCCAGAACAATGGAGCCAGCT
4744	db mining	Hs.75063	NM_006734	5803032	DNA sequence from clone 67K17 on chromosome 6q24.1-24.3. Contains the HIVEP2 (Schnur-2) gene for HIV type 1 Enhancer-binding Protein 2, and a possible pseudogene in an intron of this gene. Contains STSs and GSSs and an AAAT repeat polymorphism /cds=(545,7885)	1	AAGCAGTTGGACTTTCACAGCAGCAA GGAATTATCTTCAAGCACAGAGGA
4745	db mining	Hs.56328	NM_006737	5803051	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2 (KIR3DL2), mRNA /cds=(2,1369)	1	CTTCAGTGTAGCTCTCTCCTCTTCAA ATAACATGTCTGCCCTCATGGTT

Table 8

4746	db mining	Hs.82210	NM_006766	5803097	zinc finger protein 220 (ZNF220), mRNA /cds=(393,6407)	1	TTCTCTCGTGCAACAGTTTGCCCAT
4747	db mining	Hs.57692	NM_006781	11321623	chromosome 6 open reading frame 10 (C6orf10), mRNA /cds=(236,1942)	1	TCCTCTTCTTACTTGTCTCCAGG
4748	db mining	Hs.84665	NM_006790	5803105	titin immunoglobulin domain protein (myotilin) (TTID), mRNA /cds=(280,1776)	1	TGCTCTTCTCAGAGTTTACCCTTTTAA
4749	db mining	Hs.170027	NM_006880	6031173	mouse double minute 2, homolog of, p53-binding protein (MDM2), transcript variant MDM2, mRNA /cds=(311,1786)	1	ATCTCTCAGCCACAAACCTCAGT
4750	literature	Hs.27954	NM_006889	5901919	CD86 antigen (CD28 antigen ligand 2, B7-2 antigen) (CD86), mRNA /cds=(147,1118)	1	ACGTTTACTGGTACTGCTTTCTAAATA
4751	Table 3A	Hs.173737	NM_006908	9845510	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) (RAC1), transcript variant Rac1b, mRNA /cds=(0,635)	1	CTGTTTACCCTGTTTCTCTTGT
4752	db mining	Hs.216354	NM_006913	5902053	ring finger protein 5 (RNF5), mRNA /cds=(0,542)	1	GACAACCAATTCAAATGATTGTGCTA
4753	db mining	Hs.153299	NM_006929	13787218	DOM-3 (C. elegans) homolog Z (DOM3Z), transcript variant 2, mRNA /cds=(129,1319)	1	ACTTATTTCCCTAGTTGACCTGT
4754	literature	Hs.278721	NM_006979	5901935	HLA class II region expressed gene KE4 (HKE4), mRNA /cds=(326,1615)	1	GGCCAAGCCAGCTTAATGGCTCAT
4755	Table 3A	Hs.97437	NM_007018	5901923	centrosomal protein 1 (CEP1), mRNA /cds=(472,3456)	1	GACCTGGAATAAAATTTAGGACCA
4756	db mining	Hs.41716	NM_007036	13259505	endothelial cell-specific molecule 1 (ESM1), mRNA /cds=(68,622)	1	CTCAAGACAGTGTGACGAAGCGAT
4757	db mining	Hs.155150	NM_007042	5902065	ribonuclease P (14kD) (RPP14), mRNA /cds=(169,543)	1	CTCAGACAGTCTCTGCCCGCCTCC
4758	db mining	Hs.81743	NM_007053	5901909	natural killer cell receptor, immunoglobulin superfamily member (BY55), mRNA /cds=(215,760)	1	CTTTTTCACCACCGTCTTCAATGCCC
4759	db mining	Hs.43543	NM_007056	5902129	suppressor of white apricot homolog 2 (SWAP2), mRNA /cds=(143,2122)	1	ATGAGCCTTTCGCGCGGGTACAG
4760	db mining	Hs.247979	NM_007128	9507238	pre-B lymphocyte gene 1 (VPREB1), mRNA /cds=(0,437)	1	ACATCGTATTTGCGGCCAGCCTCTAC
4761	literature	Hs.41682	NM_007334	7669498	killer cell lectin-like receptor subfamily D, member 1 (KLRD1), transcript variant 1, mRNA /cds=(260,799)	1	ACCCAGTGAATGCCCATGTAAAA
4762	Table 3A	Hs.173334	NM_012081	6912353	ELL-RELATED RNA POLYMERASE II, ELONGATION FACTOR (ELL2), mRNA /cds=(0,1922)	1	TATTCCTTTATATCACTGTGTTTGAA
4763	db mining	Hs.268555	NM_012255	6912743	5'-3' exoribonuclease 2 (XRN2), mRNA /cds=(68,2920)	1	TCGAGGGGGAGGGGTGGTAACCG
4764	db mining	Hs.258612	NM_012312	6912471	killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 4 (KIR2DS4), mRNA /cds=(48,860)	1	ATGGGAATAGTTGCATATGGGAATTT
4765	db mining	Hs.212414	NM_012431	6912649	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3E (SEMA3E), mRNA /cds=(466,2793)	1	AAACCAACATGTGGCTGAGCCTTT
4766	Table 3A	Hs.144519	NM_012468	10947106	T-cell leukemia/lymphoma 6 (TCL6), transcript variant TCL6a2, mRNA /cds=(1767,2192)	1	GGCCTTTGAATGTAAGCTGCATAAG
4767	db mining	Hs.334729	NM_013230	7019342	cDNA FLJ20161 fis, clone COL09252, highly similar to L33930 CD24 signal transducer mRNA /cds=UNKNOWN	1	CTGTAGTGTATGCAGGATTTCAIT
4768	db mining	Hs.278911	NM_013278	7019434	interleukin 17C (IL17C), mRNA /cds=(0,593)	1	CAGACCAAGAGCACCACAGACTACAA
4769	db mining	Hs.71979	NM_013371	7019574	interleukin 19 (IL19), mRNA /cds=(47,580)	1	CTGCCAGCTTCATCTAAATACTT
4770	db mining	Hs.247382	NM_013974	7524353	dimethylarginine dimethylaminohydrolase 2 (DDAH2), mRNA /cds=(276,1133)	1	ACTATAAGTCATTTTGTGTTGGTG
4771	Table 3A	Hs.8360	NM_014039	7662640	PTD012 protein (PTD012), mRNA /cds=(473,1087)	1	TTAAGCATGAAACAACAGCAGCT
4772	Table 3A	Hs.6975	NM_014086	7662589	AF001542 cDNA /clone=alpha_est218/52C1	1	GCTATTACAGTCTCTGGGGAACAACC
4773	db mining	Hs.278944	NM_014148	7661751	HSPC048 protein (HSPC048), mRNA /cds=(87,419)	1	AAAGGAGGAGGAGGACAAAGGGAA
4774	db mining	Hs.278946	NM_014152	7661759	HSPC054 protein (HSPC054), mRNA /cds=(107,397)	1	AAGCTACTGTGTGTGTGAATGAACAC
4775	db mining	Hs.278948	NM_014163	7661781	HSPC073 protein (HSPC073), mRNA /cds=(278,649)	1	TCTTGCTTTATCCAGAATGCTGT



Table 8

4776	db mining	Hs.130101	NM_014227	14140235	solute carrier family 5 (neutral amino acid transporters, system A), member 4 (SLC5A4), mRNA /cds=(16,1995)	1	CCTCCTGGCTGTGGTGGTCTTTATTC ACGGCTACTATGCCTGAACCTCTAT
4777	db mining	Hs.205736	NM_014260	7657161	HLA class II region expressed gene KE2 (HKE2), mRNA /cds=(0,389)	1	GAAATTAAGCGATACGAATCCCAGCT TCGGGATCTTGAGCGGCAGTCAGA
4778	db mining	Hs.241385	NM_014271	7657231	interleukin 1 receptor accessory protein-like 1 (IL1RAPL1), mRNA /cds=(510,2600)	1	TCACAGTGACCACTACAGAGTACTAA GAAGAGAAGATCAAGGGCATGAAA
4779	Table 3A	Hs.211973	NM_014285	7657527	Homo sapiens, Similar to homolog of Yeast RRP4 (ribosomal RNA processing 4), 3'-5'-exoribonuclease, clone MGC:2403 IMAGE:2821702, mRNA, complete cds /cds=(11,892)	1	TCTTAAAGCCAGAAATATGGAGGAG ATTGTGATGGAACACGCCAGAGG
4780	db mining	Hs.129751	NM_014339	7657229	interleukin 17 receptor (IL17R), mRNA /cds=(32,2632)	1	CTTTTCTTTGTGCAGCGGTCTGGTTA TCGTCATATCCCGAGGGGAATCCAC
4781	db mining	Hs.296429	NM_014348	7657468	similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA /cds=(0,1286)	1	CCACGTTGGGGTCACTACTGGAGTG GATGGAGGCCCTTCACATTCTCGG
4782	db mining	Hs.21814	NM_014432	7657690	Interleukin 20 receptor, alpha (IL20RA), mRNA /cds=(236,1897)	1	TGACCTTTTCGTGATTATCCGCAATG CAACAGTTTCAGATCTAATGGTT
4783	db mining	Hs.110040	NM_014443	7657227	Interleukin 17B (IL17B), mRNA /cds=(41,583)	1	CAGTCATGGAGACCCTCGCTGTGGG CTGCACCTGCATCTTCTGAATCACC
4784	db mining	Hs.76698	NM_014445	7657551	mRNA; cDNA DKFZp434L1621 (from clone DKFZp434L1621); complete cds /cds=(315,515)	1	AGGTTTCTTCATGAGTCATTCCAAGT TTTCTAGTCCATACCAAGTCGCT
4785	db mining	Hs.326248	NM_014456	7657448	cDNA: FLJ22071 fis, clone HEP11691 /cds=UNKNOWN	1	GAGGTCGTCTTAAACCAGAGAGCTAC TGAATATAAGAACTCTTGAGCTCT
4786	db mining	Hs.278441	NM_014634	7661861	KIAA0015 gene product (KIAA0015), mRNA /cds=(106,1470)	1	GCAGTCTCCCAAGGACCCACCATGC AGAAGTGTCATAAACCACAAGTTC
4787	db mining	Hs.19056	NM_014824	7662295	KIAA0769 gene product (KIAA0769), mRNA /cds=(239,2293)	1	GGAGGGAGCCCTCTGTGCAGATGTGC TTTCTTTACAGTGGCTGTAAAAAGT
4788	db mining	Hs.11711	NM_014844	7662057	mRNA for KIAA0297 gene, partial cds /cds=(0,3815)	1	GATGCTTTTAAAGTTGTAGCTTCGTG CTTTGTACAGTTTCTTTCTGGTT
4789	db mining	Hs.7724	NM_014963	7662409	KIAA0963 protein (KIAA0963), mRNA /cds=(215,4315)	1	AATATATGCAATTCTCCCTCCCCCAG CCCTTCCCTGACCCCTAAGTTATT
4790	Table 3A	Hs.31989	NM_015449	14149687	DKFZP586G1722 protein (DKFZP586G1722), mRNA /cds=(210,669)	1	AATCTGCCAGGCTATGTGCAGATAGG AAGGAATGGTTTCCCCTAACCAAGC
4791	db mining	Hs.30488	NM_015453	14149689	DKFZP434F091 protein (DKFZP434F091), mRNA /cds=(334,1857)	1	AGCACATACATTGATAGATGGGGTGT GGGACCAACAAACCAATTAAAAAG
4792	Table 3A	Hs.104840	NM_015898	7705374	HIV-1 Inducer of short transcripts binding protein (FBI1), mRNA /cds=(0,1754)	1	CAACGGCCAGGAGAAGCACTTTAAG GACGAGGACGAGGACGAGGACGTGG
4793	db mining	Hs.278428	NM_015902	13435357	progesterone induced protein (DD5), mRNA /cds=(33,8432)	1	TTGTGGAAACTGTTTCAGCAAAGGTT CTTGATAGAGGGAATAGGGAATT
4794	db mining	Hs.279583	NM_016025	7705788	Homo sapiens, Similar to CGI-81 protein, clone MGC:705 IMAGE:3350598, mRNA, complete cds /cds=(248,1099)	1	GGGGGAAGGAAGGCTTCAGACTTGG GGGAAGGGGAGATTATTGCAAAATTG
4795	db mining	Hs.179817	NM_016026	7705790	CGI-82 protein (LOC51109), mRNA /cds=(40,996)	1	CTATGGAGGAATTGAGGGCAAGCAC CCAGGACTGATGAGGTCTTAACAAA
4796	db mining	Hs.236494	NM_016131	7705848	RAB10, member RAS oncogene family (RAB10), mRNA /cds=(90,692)	1	ACACCAACAGATTAAAGTCCATTCTCT GGTACTAGCTACAAATTCGGTTTC
4797	db mining	Hs.115515	NM_016184	7705337	C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 6 (CLECSF6), mRNA /cds=(241,954)	1	TGCACACAGGGAGAGAACATGAGTC TCTCTTAATTTTATCTGGTTGCTA
4798	Table 3A	Hs.7905	NM_016224	7706705	SH3 and PX domain-containing protein SH3PX1 (SH3PX1), mRNA /cds=(43,1830)	1	TTCAATGGAAATGAGGGGTTTCTCC CCACTGATATTTACATAGAGTCA
4799	db mining	Hs.66	NM_016232	11136631	interleukin 1 receptor-like 1 (IL1RL1), mRNA /cds=(0,1670)	1	GACCACATTGCCAATAAAGGTCCCT GAATTCCAAATCTGGAAGCAGCT
4800	db mining	Hs.180403	NM_016271	7706722	STRIN protein (STRIN), mRNA /cds=(221,958)	1	AGGCCCAATCACAGAATAAAGGACT AAGAGTGGATTGTCTGACATTTCCA
4801	Table 3A	Hs.3059	NM_016451	7705368	coatamer protein complex, subunit beta (COPB), mRNA /cds=(178,3039)	1	GCTGTCCTCAAAGTATATAATGTTTCA TGTACCAAGACCCCTTTTCAGAT
4802	Table 3A	Hs.321245	NM_016530	7706562	cDNA FLJ10249 fis, clone HEMBB1000725, highly similar to Rattus norvegicus GTPase Rab8b mRNA /cds=UNKNOWN	1	AAGGGTATTGGTCTGGTTCATATGG TCAAATATTACTGCCTTGGTAGCA
4803	db mining	Hs.115897	NM_016580	14589925	protocadherin 12 (PCDH12), mRNA /cds=(1211,4765)	1	GGGGTGCCAGGAAATGCTCTCTGAC CTATCAATAAAGGAAAGCAGCTGAT
4804	db mining	Hs.98309	NM_016584	7706701	SGRF protein, Interleukin 23 p19 subunit (SGRF), mRNA /cds=(143,712)	1	TGGGAAGGGAAATTTGGGGAATTATT ATCCTCCTGGGGACAGTTTGGGGA
4805	Table 3A	Hs.273385	NM_016592	7706588	guanine nucleotide binding protein (G protein), alpha stimulating activity polypeptide 1 (GNAS1), mRNA /cds=(68,1252)	1	GCCACAAAAGTCCCTCTCACTTTCA GTAAAAATAAATAAACAGCAGCA



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4806	db mining	Hs.241567	NM_016838	1111111	RNA binding motif, single stranded interacting protein 1 (RBMS1), transcript variant MSSP-2, mRNA /cds=(265,1434)	1	ATAAGGTGCATAAAACCCCTTAAATTC ATCTAGTAGCTGTTCCCCCGAACA
4807	db mining	Hs.272354	NM_017416	11225606	interleukin 1 receptor accessory protein-like 2 (IL1RAPL2), mRNA /cds=(756,2816)	1	GATACCCAGGAATTTACAGGAACAG TTCTTTGCTGCCTTTATCTCCAA
4808	db mining	Hs.105956	NM_017436	8392829	globotriaosylceramide/CD77 synthase; Gb3/CD77 synthase; alpha1,4-galactosyltransferase; 4-N-acetylglucosaminyltransferase (A14GALT), mRNA /cds=(133,1194)	1	CCCACCCTGCCGCCCGCATTATAAAC ACAGGAGAATAATCAATAGATAA
4809	db mining	Hs.283690	NM_017548	8923709	clone H41 unknown mRNA /cds=(323,1099)	1	AAACCAGGCCCTTAAACTTCAGCTAG ACAACCAATATGCTGTGCTTGAAA
4810	db mining	Hs.14512	NM_017583	8923748	DIPB protein (HSA249128), mRNA /cds=(177,1211)	1	CCAGATCCACAGCAGGCACATATCTC TCCAAGGGATGACCAGTTTATGTC
4811	Table 3A	Hs.288036	NM_017646	8923064	tRNA isopentenylpyrophosphate transferase (IPT), mRNA /cds=(60,1040)	1	GGACTTGAAGACCAAGACTTTGAAA TTTCCGAGCTGCTCATGTGTGAGT
4812	Table 3A	Hs.106850	NM_017868	8923499	Homo sapiens, Similar to hypothetical protein FLJ20533, clone MGC:3448 IMAGE:3631570, mRNA, complete cds /cds=(380,865)	1	GAAACGGCATAAAGATGAGAAATGAG CCTATTTGTAGTGTCGTGCTTA
4813	Table 3A	Hs.272134	NM_018067	8922367	AL544307 cDNA /clone=CS0D1019YG13-(5-prime)	1	CCTGCCCTCGCCTGGAATCAGTGTTA CTGCATCTGATTAAATGCTCTCCAA
4814	Table 3A	Hs.7187	NM_018187	8922606	mRNA for KIAA1757 protein, partial cds /cds=(347,4576)	1	AATGAGTTGTGTTGAAGCCTCCGTCT CCCATCCTTGCCTGTAGCCCCGTAG
4815	db mining	Hs.85752	NM_018461	8923923	mRNA for KIAA1541 protein, partial cds /cds=(908,2341)	1	CAGAGTTGACGGACACTGCTCCCAA AGGTCATTACTCAGAATAAATGTA
4816	db mining	Hs.272373	NM_018724	11036633	interleukin 20 (IL20), mRNA /cds=(0,530)	1	GAACCTCAGGCAGCAGTTGTGAAGG CTTTGGGGGAAGTAGACATTTCTCT
4817	db mining	Hs.110309	NM_018950	9665231	major histocompatibility complex, class I, F (HLA-F), mRNA /cds=(0,1088)	1	GGACTGAGAGCAAGATATCAATGTA GCAGAATTGCACCTGTGCCTCAGC
4818	Table 3A	Hs.225674	NM_018963	11321643	mRNA for WDR9 protein (WDR9 gene), form B /cds=(79,6888)	1	CAATGGTTGCACCTTATGACCTTGAG GGAAAGCCAGTTCATTAAAGAGGA
4819	db mining	Hs.278430	NM_019105	14719824	cytochrome P450, subfamily XXIA (steroid 21-hydroxylase, congenital adrenal hyperplasia), polypeptide 2 (CYP21A2), mRNA /cds=(118,1605)	1	GGGGGAGGGGAGGGGTTCTGACAG GAGCAATAAAGGAGAACTGAGGTAC
4820	db mining	Hs.278430	NM_019105	14719824	cytochrome P450, subfamily XXIA (steroid 21-hydroxylase, congenital adrenal hyperplasia), polypeptide 2 (CYP21A2), mRNA /cds=(118,1605)	1	GGGGGAGGGGAGGGGTTCTGACAG GAGCAATAAAGGAGAACTGAGGTAC
4821	db mining	Hs.159679	NM_019598	9665235	kallikrein 12 (KLK12), mRNA /cds=UNKNOWN	1	ACTTCTTGAACCTTAACTCCTGCCA GCCCTTCTAAGACCCACGAGCGGG
4822	db mining	Hs.247808	NM_019602	9624988	butyrophilin-like 2 (MHC class II associated) (BTNL2), mRNA /cds=(0,1367)	1	TGTTCCATCAGCATCCCTTTTGGG CGAGGAGAAAATCGCACTTTTTTC
4823	db mining	Hs.36989	NM_019616	10518502	coagulation factor VII (serum prothrombin conversion accelerator) (F7), transcript variant 1, mRNA /cds=(51,1451)	1	CAGACTATTCCCACCTGCTTCCCAG CTTCACAATAACGGGTGCGTCTC
4824	db mining	Hs.36989	NM_019616	10518502	coagulation factor VII (serum prothrombin conversion accelerator) (F7), transcript variant 1, mRNA /cds=(51,1451)	1	CAGACTATTCCCACCTGCTTCCCAG CTTCACAATAACGGGTGCGTCTC
4825	db mining	Hs.289095	NM_020056	11095446	major histocompatibility complex, class II, DQ alpha 2 (HLA-DQA2), mRNA /cds=(0,767)	1	GTCTGTGGGCTCATGGGCATTGTG GTGGGCACTGTCTTCATCATCCAAG
4826	db mining	Hs.296552	NM_020070	13399297	DNA sequence from clone CTA-246H3 on chromosome 22 Contains the gene for IGLL1 (immunoglobulin lambda-like polypeptide 1, pre-B-cell specific), a pseudogene similar to LRP5 (Lipoprotein Receptor Related Protein.), ESTs, Genomic markers (D22S414, D22S925, D22S926), CA repeats, STSs, GSSs and a CpG island /cds=(0,438)	1	CTCCAAACAGAGCAACAACAGTACG CGGCCAGCAGCTACCTGAGCCTGA
4827	Table 3A	Hs.94395	NM_020324	10947128	ATP-binding cassette, sub-family D (ALD), member 4 (ABCD4), transcript variant 5, mRNA /cds=(51,1544)	1	CCAAAGTCCTCACTCAGACCAGTGCC CCTCCAGTTCAGTTGTCTATGTAT
4828	db mining	Hs.105509	NM_020428	9966908	cDNA FLJ14613 fis, clone NT2RP1001113, highly similar to CTL2 gene /cds=UNKNOWN	1	TGTCTTCCACCCTCAAGAACTCTTG AACAGACCAACAAGAAGGCAGCG
4829	literature	Hs.248156	NM_020530	10092620	oncostatin M (OSM), mRNA /cds=(0,758)	1	GCAGGACCAGACCCTCCAGGAAAGG CAAGAGACTCATGACCAGGGGACAG

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4830	db mining	Hs.105052	NM_020979	10280625	adaptor protein with pleckstrin homology and src homology 2 domains (APS), mRNA /cds=(127,2025)	1	GGTGGGACACGCCAAGCTCTTCAGT GAAGACACGATGTTATTAAGCCT
4831	literature	Hs.1510	NM_021068	10835102	interferon, alpha 4 (IFNA4), mRNA /cds=(140,709)	1	AGCTTGGTGATACCTTGACGGCACT AGTCCTTTACAGATGACAATGCTG
4832	db mining	Hs.76293	NM_021103	10863894	thymosin, beta 10 (TMSB10), mRNA /cds=(65,199)	1	AGGAAGAGCCACCTGCAAGATGGAC ACGAGCCACAAGCTGCACTGTGAAC
4833	db mining	Hs.3254	NM_021134	10863930	mitochondrial ribosomal protein L23 (MRPL23), mRNA /cds=(54,515)	1	GGGTGCAGCATGGCTCTAACAAGAG AAGAGATCACAGAAACGTGAGGATC
4834	Table 3A	Hs.7137	NM_021188	10863994	clones 23667 and 23775 zinc finger protein (LOC57862), mRNA /cds=(182,1618)	1	TACATTCTCCCTTTAGCAACCTGAGT AAGAGACTCTCTGCCACTGGGCTG
4835	db mining	Hs.11090	NM_021201	11139298	high affinity immunoglobulin epsilon receptor beta subunit (CFFM4), mRNA /cds=(148,868)	1	AACCTTTGGCCTCAGAGGAAGGAAAA GCAACTCAACACTCATGGTCAAGT
4836	db mining	Hs.241587	NM_021246	10864054	megakaryocyte-enhanced gene transcript 1 protein (MEGT1), mRNA /cds=(3,1151)	1	AGGGAACAAGGGAGCAAGGGAACAA GGGACATCTGAACATCTAATGTGAG
4837	db mining	Hs.110915	NM_021258	10864066	interleukin 22 receptor (IL22R), mRNA /cds=(23,1747)	1	GTGGCCCTTGACGGGTACAATAAC ACACTGTACTGATGTCACAACCTTTG
4838	db mining	Hs.210546	NM_021798	11141868	interleukin 21 receptor (IL21R), mRNA /cds=(68,1684)	1	CCCCTACCCTGCCCAATTCATCTCT GCCAATAAATCCTGTCTTATTGT
4839	Table 3A	Hs.302014	NM_021803	11141874	interleukin 21 (IL21), mRNA /cds=(46,534)	1	ACACGGGAAGTGAAGATTCCTGAGGAT CTAACTTGCACTTGGACACTATGT
4840	db mining	Hs.82887	NM_021959	11386174	protein phosphatase 1, regulatory (inhibitor) subunit 11 (PP1R11), mRNA /cds=(199,579)	1	CGGTCTTTTGCATACACAGTTACA GAGATCAGTCAAAATCCATACCACC
4841	db mining	Hs.79372	NM_021976	11415051	retinoid X receptor, beta (RXRB), mRNA /cds=(179,1780)	1	ATACCTGTGAGGACTGGTTGTCTCTC TTCGGTGCCCTTGAGTCTCTGAAT
4842	db mining	Hs.293934	NM_021983	11875206	major histocompatibility complex, class II, DR beta 4 (HLA-DRB4), mRNA /cds=(58,948)	1	TCATCTACTTCAGGAATCAGAAAGGA CACTCTGGACTTCAGCCAACAGGT
4843	Table 3A	Hs.96560	NM_022086	11545798	Homo sapiens. Similar to hypothetical protein FLJ11656, clone MGC5247, mRNA, complete cds /cds=(149,271)	1	TGCTTCTTGAAATGGATTTAACAACA GCCAGGAGCTTCTGTCTAGTAACC
4844	db mining	Hs.288316	NM_022107	11545816	chromosome 6 open reading frame 9 (C6orf9), mRNA /cds=(373,855)	1	CCCTCCCCACTGCTGCTGAGTCTGTC TGATGTTTGGTGTGTGAATAAA
4845	db mining	Hs.99134	NM_022110	11545822	D1R1 protein (NG7), mRNA /cds=(268,879)	1	AGGAGGAAGTGGGAAGGTGGTCAT TCAGGGGAAGAACAGGATGCAGGG
4846	Table 3A	Hs.24633	NM_022136	11545870	SAM domain, SH3 domain and nuclear localisation signals, 1 (SAMS1), mRNA /cds=(82,1203)	1	TGGGAAAGTGTGAGTTAATTGGAC ACATTTTATCCTGATCCACAGTGG
4847	literature	Hs.247885	NM_022304	11111111	histamine receptor H2 (HRH2), mRNA /cds=(525,1604)	1	TTAAAGGAGCACATTAATTTCTCA GAGGACTTGGCAAGGGCCGACAG
4848	db mining	Hs.271815	NM_022352	11641262	caspase recruitment domain protein 9 (LOC84170), mRNA /cds=(146,1246)	1	GCACAGCCCATCTGTGTAATTCAGG ATCTGTTCTGTTTACCAGTGAAC
4849	db mining	Hs.294030	NM_022447	13937360	topoisomerase-related function protein 4-2 (TRF4-2), mRNA /cds=(338,869)	1	TTTTTCCAGCTCGCCACAGAATGGA TCATGAAGACTGACAACTGCAAAA
4850	Table 3A	Hs.15220	NM_022473	11968022	zinc finger protein 106 (ZFP106), mRNA /cds=(335,5986)	1	AAGAGAAATATATGCCCTAGAGCTGC TCCAGCACCTTGGTTTCTGATTT
4851	db mining	Hs.28921	NM_022482	11968149	DNA sequence from clone RP3-322G13 on chromosome 20p11.21-12.3 Contains the gene for NTF2-related export protein (NXT1), a gene for a novel zinc finger protein with three isoforms, two isoforms for the 3' part of a novel gene, a gene for a novel protein similar to mouse and bovine beta-soluble NSF attachment protein (SNAP-beta), a novel gene similar to cystatin, another novel gene similar to cystatin 8 (CST8) with two isoforms, ESTs, STSs, GSSs and CpG islands /cds=(0,2135)	1	ACAGACAGACTCGATGCCACACAG CTTCACTCTTTGAGCAACATGGAAT
4852	Table 3A	Hs.161788	NM_022570	13384603	C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 12 (CLECSF12), mRNA /cds=(71,676)	1	GCACGGTGTGTTGCCACGATTTGACC CTCAACTCTAGCAGTATATCAGT
4853	db mining	Hs.302036	NM_022789	12232484	interleukin 17E (IL17E), mRNA /cds=(258,791)	1	AGTGAGTTACTAGTCTTTTGACATG GATGATTCTGAGGAGGAAGCTGTT
4854	Table 3A	Hs.302981	NM_024033	13162284	hypothetical protein FLJ11000 (FLJ11000), mRNA /cds=(223,780)	1	TCACTGCCATACAGGTTTCCAATAC ACAAGTGCTAGAAAAACACACAA
4855	db mining	Hs.287194	NM_024039	13128993	hypothetical protein MGC2488 (MGC2488), mRNA /cds=(553,1170)	1	TTGCTTGGCCCTCCATGTCTTCTCTAA GAGCAGAACTTGGAGTTTCTCCTT
4856	Table 3A	Hs.250723	NM_024104	13129111	hypothetical protein MGC2747 (MGC2747), mRNA /cds=(92,247)	1	AGAATGAGCCTGAATGTTGGTGGTTT TTGAAATCCTGACTTGGAGGTAA

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4857	db mining	Hs.71746	NM_024663	13375916	hypothetical protein FLJ11583 (FLJ11583), mRNA /cds=(371,1606)	1	CCTCGGCCCTGACAAACGGGGATCT
4858	db mining	Hs.94810	NM_024681	13489098	hypothetical protein FLJ12242 (FLJ12242), mRNA /cds=(185,1057)	1	TTTACCTCACTTGGCACTGATTAAT
4859	Table 3A	Hs.180799	NM_024835	13376244	C3HC4-type zinc finger protein (LZK1), mRNA /cds=(47,2140)	1	TGGCTTGGCCTTCTCTTGGTGATCC
4860	db mining	Hs.183171	NM_024838	13376250	hypothetical protein FLJ22002 (FLJ22002), mRNA /cds=(115,783)	1	CACCCCCAGCCATTGCAATTGCTG
4861	db mining	Hs.212839	NM_024879	13376319	mRNA for KIAA1714 protein, partial cds /cds=(0,3175)	1	AATGTTTCTCTTCTGCTGAGACTACT
4862	db mining	Hs.125034	NM_025085	13376639	mRNA for putative N-acetyltransferase /cds=(208,2808)	1	AAAGCAACTTAGTGGCAAAAAGT
4863	db mining	Hs.336937	NM_025222	13489105	mRNA; cDNA DKFZp434C0814 (from clone DKFZp434C0814) /cds=UNKNOWN	1	AGTACTTGAGTAGTCTCAATAGGAGT
4864	Table 3A	Hs.336937	NM_025222	13489105	mRNA; cDNA DKFZp434C0814 (from clone DKFZp434C0814) /cds=UNKNOWN	1	GTATTGTAGACAGCAGTTTCCCT
4865	Table 3A	Hs.336937	NM_025222	13489105	mRNA; cDNA DKFZp434C0814 (from clone DKFZp434C0814) /cds=UNKNOWN	1	ACCCTAGATGAGCTGTCTGCTCCAG
4866	db mining	Hs.247879	NM_025260	13376871	G6B protein (G6B), mRNA /cds=(0,725)	1	TAACATTCTTTTCTAAATCATT
4867	db mining	Hs.241586	NM_025261	13376873	G6C protein (G6C), mRNA /cds=(54,431)	1	AACTAGAAGATGACTTCGACAGCAT
4868	db mining	Hs.118354	NM_025263	13376877	CAT56 protein (CAT56), mRNA /cds=(264,1025)	1	CCATTTTACTTCAAGGCAGCAAGA
4869	db mining	Hs.301920	NM_030651	13449284	chromosome 6 open reading frame 31 (C6orf31), mRNA /cds=(0,602)	1	ATTTGAGTTCCTGTGTGTCCAAAAC
4870	Table 3A	Hs.196270	NM_030780	13540550	folate transporter/carrier (LOC81034), mRNA /cds=(128,1075)	1	GAGGCACCATGTCTTTGAAAACA
4871	db mining	Hs.107149	NM_030934	13569898	novel protein similar to archaeal, yeast and worm N2,N2-dimethylguanosine tRNA methyltransferase (C1ORF25), mRNA /cds=(194,2395)	1	ATTTGAGTTCCTGTGTGTCCAAAAC
4872	literature	Hs.225946	NM_031200	14043041	chemokine (C-C motif) receptor 9 (CCR9), transcript variant A, mRNA /cds=(157,1266)	1	GAGGCACCATGTCTTTGAAAACA
4873	db mining	Hs.25063	NM_031268	13775167	PRO0461 protein (PRO0461), mRNA /cds=(779,970)	1	GTCCACAGCGGACCTGTGTATGCC
4874	Table 3A	Hs.301183	NM_031419	13899228	molecule possessing ankyrin repeats induced by lipopolysaccharide (MAIL), homolog of mouse (MAIL), mRNA /cds=(48,2204)	1	TCCACCATCTATGCAGTTGTAGTTT
4875	db mining	Hs.283801	NM_032009	14198461	protocadherin gamma subfamily A, 2 (PCDHGA2), transcript variant 1, mRNA /cds=(185,2983)	1	CAGGCTCCCATATGTACCCCATCCCC
4876	Table 3A	Hs.301104	NM_032236	14149943	602313002F1 cDNA, 5' end /clone=IMAGE:4422480 /clone_end=5'	1	CATACTCACCTCTTCCATTTTGA
4877	Table 3A	Hs.193669	NM_032270	14150008	hypothetical protein DKFZp586J1119 (DKFZp586J1119), mRNA /cds=(27,2153)	1	GTTGTATTGGCAAGAGGGAGGGTG
4878	db mining	Hs.323662	NM_032334	14150117	hypothetical protein MGC14595 (MGC14595), mRNA /cds=(101,850)	1	AGAGCTGTTGGGAAGTGAAGATGA
4879	db mining	Hs.106823	NM_032335	14150119	mRNA for KIAA1823 protein, partial cds /cds=(52,1185)	1	GTACCATCTCACCAGTATCATCATC
4880	db mining	Hs.334639	NM_032389	14150222	SH3 domain-containing protein 6511 (LOC51165), mRNA /cds=(215,1489)	1	ATCGCCGCGCAGCACCACGAGAAC
4881	db mining	Hs.248367	NM_032445	14192940	MEGF11 protein (MEGF11), mRNA /cds=(159,3068)	1	ATTATCGTAAACATCCACGAGTGCT
4882	db mining	Hs.69233	NM_032494	14210505	zinc finger protein (LOC84524), mRNA /cds=(92,967)	1	GTTGCACTACCATCTATTTGTTGT
4883	db mining	Hs.28514	NM_032597	14211930	testes development-related NYD-SP21 (NYD-SP21), mRNA /cds=(76,2115)	1	ATCGCTGAATATGTTGATCAGTGATG
4884	Table 3A	Hs.10058	NM_032811	14249499	hypothetical protein FLJ14621 (FLJ14621), mRNA /cds=(525,1307)	1	AGTTGGGCTTAAATGCAAAAGTCT
4885	Table 3A	Hs.334788	NM_032815	14249507	hypothetical protein FLJ14639 (FLJ14639), mRNA /cds=(273,689)	1	AGGCTATTTACTTCCATGCTTCTCCTT
4886	Table 3A	Hs.11360	NM_032839	14249551	hypothetical protein FLJ14784 (FLJ14784), mRNA /cds=(133,1569)	1	GGGACCCCCCAGTGAGTCAACA
4887	db mining	Hs.29206	NM_032895	14249657	hypothetical protein MGC14378 (MGC14378), mRNA /cds=(184,255)	1	AGGCTCATGTCAAGTTGAAATG
4888	Table 3A	Hs.154172	R64548	838427	602575012F1 cDNA, 5' end /clone=IMAGE:4703258 /clone_end=5'	1	TGGTGTGATATGAACAGTCCATTCA
4889	db mining	Hs.159386	S74639	807023	AL560682 cDNA /clone=CSDBL004YM19 (5-prime)	1	CATTGCAAAAACATGATGGTTTTAA
4890	Table 3A	Hs.172762	T75153	691915	16b3 cDNA	1	TTTTATCAGCGCCTCAATCTCTACTC
							GAAGAAGAAAGAGAAAGAAACGTT
							CGCTGTCGCTTAATCCAAGCCTACG
							TTTTCACACTTCTAGTAAGCCTCT
							CTGTGCGGCTCTGAAGCGAGCTGGT
							TTAGTTGTAGAAGATGCTCTGTTTG
							AGAAGCAGAATGCAGAAGGAGAATG
							AATCCTTTGGTACTTTCAAGGACA
							TCTGGCACAGTCCAGCTCACAACAAC
							ATCAAGAGCAGAAATTTGGAGACTT
							GGGACTTGACTTTCTTTCTGGAAGT
							TGTATTGAAACAAAGTGGTGCTCA
							AGCCTAAACATGTATACTGTGCATTTT
							ATGGGTGACTTTGAAAGATCTGT
							AGACTGGTGATTGGAGTAGTTTACA
							AGATTCTCATTCAGAGTGCCCTC
							TGCTCTCCTCAACTGTGTTCTCAA
							CTGTGGTTGCCACCTCATTAACTT
							TGGAACATACCACATGTAGAAAGGTT
							GAAGTGGTTTTCAGCTATAATGC
							TCACTTAGCCTTTCTGGTTTCCCTTC
							CTGTGCATTGCCAATTTCTCATG
							AGCCAAAGAGGTATATCGATGATGAA
							ATTAGCCACATGTACACTACATTT
							CTTCACCGCCCTCAGCTCCGCGC
							CCAGCCTGTAATGTTTATATAAGC
							CTTTCAGAGCCAGTTTGCCAAAGGCC
							AGCATCCCGTCTGGGAGATGCACC
							GCCGTATATTACTGTGCGAGAGGGC
							CGGAGTGGTACTCGGTATGGAGCT
							AGGCAAAAGCGCCTCACGCATTCTTG
							TTCCTTGTTGCTTCTCGGTTTTT

Table 8

4891	Table 3A	Hs.294092	T93822	726995	EST375308 cDNA	1	TTAGAAAGAAAAGTCTTTTATTAGTAC
4892	db mining	Hs.301365	U19885	642583	602462113F1 cDNA, 5' end /clone=IMAGE:4575051 /clone_end=5'	1	TGTGTAGGGGAAGGCTAAAGAAAT ACTGTGCGAAACGTAAGTATTACGA TTTTTGAGTGGCCGAAGTAGTCC
4893	db mining	Hs.318720	U33547	3320135	Homo sapiens, clone MGC:12387 IMAGE:3933019, mRNA, complete cds /cds=(63,863)	1	CAGACCCTGGTGATGCTGGAACAG TTCCTCGAGTGGAGAGGTTTACAC
4894	db mining	Hs.287811	U62824	1575443	mRNA for HLA-C alpha chain (Cw*1701) /cds=(0,1118)	1	GTCCAGCAACAGTGCCAGGGCTCT GATGAGTCTCTCATCGCTTGTAAG
4895	db mining	Hs.247987	U80113	1791068	immunoglobulin heavy chain variable region (V4-31) gene, partial cds /cds=(0,358)	1	GTGTATTACTGTGCGAGAGCCTTCCG CCATCCCGGAGTACGTCCAATATG
4896	db mining	Hs.289036	U80180	1791202	immunoglobulin heavy chain variable region (VH4) mRNA, VH4-59 allele, partial cds /cds=(0,353)	1	CCCGTCCCTCAAGAGTCGAGTCACC ATATCAGTAGACAAGTCCAAGAACC
4897	db mining	Hs.247898	U96393	2078365	partial mRNA for Ig lambda light chain variable region, clone MB91 (331 bp) /cds=(0,330)	1	GGCTCCAGGCTCAGGATGAGGCTGA TTATTACTGCTGCTCATATACAAGC
4898	db mining	Hs.914	X00457	36405	Homo sapiens, Similar to major histocompatibility complex, class II, DR alpha, clone MGC:14114 IMAGE:4309471, mRNA, complete cds /cds=(40,822)	1	CCCTCACTGTCACTTCCCGAGAATA CCCTAAGACCAATAAATCACTTCAG
4899	db mining	Hs.296552	X03529	33351	DNA sequence from clone CTA-246H3 on chromosome 22. Contains the gene for IGLL1 (immunoglobulin lambda-like polypeptide 1, pre-B-cell specific), a pseudogene similar to LRP5 (Lipoprotein Receptor Related Protein.), ESTs, Genomic markers (D22S414, D22S825, D22S826), CA repeats, STSs, GSSs and a CpG island /cds=(0,438)	1	TGAATGACTTCTACTCTGGGAATCTTG ACGGTGACCTGGAAGGCAGATGGT
4900	literature	Hs.287797	X07979	31441	mRNA for FLJ00043 protein, partial cds /cds=(0,4248)	1	ACCACTGTATGTTTACTTCTCACCATT TGAGTTGCCATCTTGTTTCACA
4901	db mining	Hs.247804	X51887	37616	V108 gene encoding an immunoglobulin kappa orthon	1	AGAACAGAGATGATTACAGCTACGAA GTCTGAGTTATGGTGTGAGTTGGA
4902	db mining	Hs.81220	X58397	33615	CLL-12 transcript of unrearranged immunoglobulin V(H)5 gene /cds=(39,425)	1	TTCACTATTGCTTCTTGCCTTCTCTC CCTCCTGTCCGCTCTCACTCACTC
4903	Table 3A	Hs.275959	X60656	31134	eukaryotic translation elongation factor 1 beta 2 (EEF1B2), mRNA /cds=(235,912)	1	TGGATGTGGCTGCTTTCAACAAGATC TAAATCCATCCTGGATCATGGCA
4904	db mining	Hs.90093	X67643	2244651	mRNA for heat shock protein apg-2, complete cds /cds=(278,2800)	1	TGAAGAAGCAGCAAAATATTGAAG AACTAGGGAAACAGATCCAACAGT
4905	db mining	Hs.300697	Y14737	2765424	mRNA for immunoglobulin lambda heavy chain /cds=(65,1498)	1	GTCTACATACTTCCCAGGCACCCAGC ATGGAAATAAAGCACCACCACTG
4906	db mining	Hs.300697	Y14737	2765424	mRNA for immunoglobulin lambda heavy chain /cds=(65,1498)	1	ATACTTCCAGGCCACCCAGCATGGAA ATAAAGCACCACCACTGCCCTCTG
4907	db mining	Hs.181125	Y14738	2765426	Homo sapiens, clone MGC:12849 IMAGE:4308973, mRNA, complete cds /cds=(24,725)	1	CCCAAGGCATCAAGCCCTTCTCCCTG CACTCAATAAACCTCAATAAATA
4908	Table 3A	Hs.283770	Z00008	33142	germline gene for the leader peptide and variable region of a kappa immunoglobulin (subgroup V kappa I)	1	AAGGCAGAGATCTTGACACCTAAGGA GTCTAGTTTAGGGCTTTGGTTGGA
4909	db mining	Hs.37089	Z00010	33146	germ line pseudogene for immunoglobulin kappa light chain leader peptide and variable region (subgroup V kappa I)	1	GTTGACATTAGAAGCAGGATTCTCTG GTACTCCCTCAGAAAATAGAATGC
4910	db mining	Hs.148661	Z00022	33158	qg78c05.x1 cDNA, 3' end /clone=IMAGE:1841288 /clone_end=3'	1	TTGGAGCGTTTTTGTGTTTGAGATATT AGCTCAGGTCATTTCAAAGAGT
4911	Table 1	Hs.181297	AA010282	1471308	tc35a11.x1 cDNA, 3' end /clone=IMAGE:2066588 /clone_end=3'	1	GGTTGTGTCTCTGGTTTCCCTTTTC CCCGTGGTTTTAATTTTAAAGAAC
4912	Table 1	Hs.189468	AA069335	1576904	tm30a06.x1 cDNA, 3' end /clone=IMAGE:2158066 /clone_end=3'	1	ACCATAGCAGACAGGGTCAGATGGA ATATTAGCGGTTTAGGTGAAGAAC
4913	Table 1	Hs.13859	AA115345	1670525	mRNA; cDNA DKFZp586F2423 (from clone DKFZp586F2423) /cds=UNKNOWN	1	ATCCACATCTTACCTTTGGTAGTCA GGTTTGGCTACTTTGCAGCTCGCC
4914	Table 1	Hs.182278	AA203528	1799239	Homo sapiens, calmodulin 2 (phosphorylase kinase, delta), clone MGC:1447 IMAGE:3504793, mRNA, complete cds /cds=(93,542)	1	TCTGTTACCACCTCTAAATATTGGG GTGGAATAAAGCTGGGTTCTTGCA
4915	Table 1	Hs.100651	AA251184	1886149	golgi SNAP receptor complex member 2 (GOSR2), mRNA /cds=(0,638)	1	AAGGATGAAGGACTGATGGAGGGCA GAGGAAGTGGAGGCAGCAGGCACAA
4916	Table 1	NA	AA252909	1885512	zr76a03.r1 Soares_NhHMPu_S1 cDNA clone IMAGE:669292 5', mRNA sequence	1	AGATGTCTGTATAAACACCTTTGGG TAGCAGGTGGTCAGTTAGGCAGGA

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4917	Table 1	Hs.194480	AA258979	1894268	EST389427 cDNA	1	TGCTTGCTCTTTAAACACCTTCACAGA TATCATTTGCACCTTGCCAAAGG
4918	Table 1	Hs.5241	AA280051	1921589	fatty acid binding protein 1, liver (FABP1), mRNA /cds=(42,425)	1	GGGTAGGCAGCTTGACCCAGTTCT CCTTTATCTCAACTTATTGTCTGG
4919	Table 2	Hs.23128	AA282304	1925220	Homo sapiens, Similar to RIKEN cDNA 4931428D14 gene, clone MGC:15407 IMAGE:4309613, mRNA, complete cds /cds=(123,1151)	1	ACTTGAACAGAGAAGAACTTCGGCAAC GAGAACACTATCTCAAGCAGAAGA
4920	Table 1	NA	AA282774	1925825	z114g01.r1 NCL CGAP_GCB1 cDNA clone IMAGE:713136 5', mRNA sequence	1	GCGGTGTCCTGAGTGAGGGCAAAG TTGTAATAACACTTGTCTCTCCTT
4921	Table 1	Hs.89072	AA283061	1926050	hypothetical protein MGC4618 (MGC4618), mRNA /cds=(107,1621)	1	ACGGCGTTCTGAAATTTAGCACACTG GGAAGTCCACATCGTTCATCTGAA
4922	Table 1	Hs.291448	AA290921	1938772	EST388168 cDNA	1	AATGAGATCACAGATGGTGACACTGA GCGGAAGGATGCAGTACCTCGGAG
4923	Table 1	Hs.211866	AA290993	1938989	wh99f02.x1 cDNA, 3' end /clone=IMAGE:2388891 /clone_end=3'	1	GGCTAGTGGTGTTTCAGAGAAATACCA AAACGTGTTTTTATCATTTGCTGGT
4924	Table 1	NA	AA319163	1971490	EST21341 Adrenal gland tumor cDNA 5' end, mRNA sequence	1	AGCTGCCTCAGGAGGTTCTTAACATA TAGGAATGTAATTATCAGATTCAA
4925	Table 1	Hs.260238	AA332553	1984806	hypothetical protein FLJ10842 (FLJ10842), mRNA /cds=(39,1307)	1	AGGAAACCAAGCCCTCAGGAAAG AAAGCCTGATTCAAGAAAACAAAGT
4926	Table 1	Hs.343557	AA401648	2056830	601500320F1 cDNA, 5' end /clone=IMAGE:3902237 /clone_end=5'	1	GCTGGGGCTGAGAGAGGGTCTGGGT TATCTCCTCTGATCTTCAAAACAA
4927	Table 1	Hs.186674	AA402069	2056860	qf56f08.x1 cDNA, 3' end /clone=IMAGE:1754051 /clone_end=3'	1	TCATGGACACAAACTTTGGAGTATAA GCGACATCCCTTAAGCAACAGGCT
4928	Table 1	Hs.301985	AA412436	2071006	602435787F1 cDNA, 5' end /clone=IMAGE:4553684 /clone_end=5'	1	GCCATTTTCCCTCCAGAAACAAAACC AAGATAATTTATCCTGAACACGGT
4929	Table 1	Hs.8691	AA418765	2080566	cDNA: FLJ23249 fis, clone COL04196 /cds=UNKNOWN	1	TGTTTGTAACACTAGCATTTCTATGTC TGTACTTGAACGTGTAGTTAGCA
4930	Table 1	Hs.24143	AA426506	2106769	Wiskott-Aldrich syndrome protein interacting protein (WASPIP), mRNA /cds=(108,1619)	1	AGGACCATAGGGGAAGAGCCAGCCTT GCCTTTTCTTATATGATTTTGTTA
4931	Table 1	Hs.89519	AA428783	2112974	KIAA1046 protein (KIAA1046), mRNA /cds=(577,1782)	1	CCTGGGTTGCCTTGTAATGAAAGGG AGATCGAGCCATTGTACCACCTTA
4932	Table 1	NA	AA457757	2180477	aa92c03.r1 Stratagene fetal retina 937202 cDNA clone IMAGE:838756 5', mRNA sequence	1	AGCTGTTTAATTGAATTGGAATCGTT CCACTTGGAAACCAAGTTTGAA
4933	Table 1	Hs.82772	AA460876	2185996	collagen, type XI, alpha 1 (COL11A1), mRNA /cds=(161,5581)	1	TCGTTCTACGTTATCTCATCTCCTTGT TTTCAGTGTGCTTCAATAATGCA
4934	Table 1	Hs.13809	AA476568	2204779	mRNA for KIAA1525 protein, partial cds /cds=(0,2922)	1	TGTTTTTGCTTCTCAGAACTTTTAA TTGCATCTGCCATCCTTCATTGG
4935	Table 1	NA	AL047171	5936355	DKFZp586F2018_r1 586 (synonym: hute1) cDNA clone DKFZp586F2018 5', mRNA sequence	1	TGCACCTACTCATTAGTTTTAGTTTG AACTCTCTGCGAGGTCTAATGT
4936	Table 1	Hs.77868	AL513780	12777274	ORF (LOC51035), mRNA /cds=(135,1031)	1	TGGTTCTTCTGATGAGCAAGGGAACA ACACTGAGAATGAGGAGGAGGT
4937	Table 2	Hs.30120	AL533737	12797230	cDNA /clone=CS0DF002YH09-(5- prime)	1	AAGCAAGAGATTGTAACCGGGTACA GATCCAAGAGATGAGAGAGGACCC
4938	Table 1	Hs.285401	AL540399	12870508	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte- macrophage) (CSF2RB), mRNA /cds=(28,2721)	1	CGTCTACTGCGGAAAAGTCAGGGGA AACTGCCAAACAAAGGAAATGCC
4939	Table 1	NA	AV689330	10291193	AV689330 GKC cDNA clone GKCDJE03 5', mRNA sequence	1	GTGTTTGACTTCACTGCTGCGAAATG ACTGTCTCTGCTAGTAGGATCT
4940	Table 1	Hs.90960	AV710415	10729044	602563938F1 cDNA, 5' end /clone=IMAGE:4688769 /clone_end=5'	1	ATGTGGGAGGGGCATGGCAGCTATG AAGGACCTCTACCTCTGTTTCTG
4941	Table 1	Hs.237868	AV716565	10813717	Interleukin 7 receptor (IL7R), mRNA /cds=(22,1401)	1	CCAGCCTTTGCCTCTTCTTCAATGT GGTTTCCATGGGAATTTGCTTCAG
4942	Table 1	Hs.127160	AV719938	10817090	AV659177 cDNA, 3' end /clone=GLCFUC08 /clone_end=3'	1	ACCTTGTAAGTGCTAAGAAATGAGA CTACAAGCTCCATTTACGAGGAC
4943	Table 2	Hs.21536	AV720984	10818136	yf69a03.s1 cDNA, 3' end /clone=IMAGE:27414 /clone_end=3'	1	GCCGAGATCTGCTCAGACTACATGG CTTCCACTATAGGTTCTACAGTGT
4944	Table 1	Hs.22003	AV730135	10839556	solute carrier family 6 (neurotransmitter transporter, GABA), member 1 (SLC6A1), mRNA /cds=(234,2033)	1	ATGTCTATAAATGGTGTCACTAG AGCACGGGCGTTATGTAAGTTTCT
4945	Table 1	Hs.339696	AV755367	10913215	ribosomal protein S12 (RPS12), mRNA /cds=(80,478)	1	TGAGTCGTATTACAATTCAGTGGCCG TCGTTTTACAACGCTCGTGACTGGG
4946	Table 1	Hs.301553	AW021037	5874567	karyopherin alpha 6 (importin alpha 7) (KPNAB), mRNA /cds=(55,1665)	1	ACATAGGCGAAGAAAACATGGCATTG AGTGTGCTGAGTCCAGACAAATGT
4947	Table 2	NA	AW402007	6920693	UI-HF-BK0-aao-g-02-0-UI.r1 NIH_MGC_36 cDNA clone IMAGE:3054530 5', mRNA sequence	1	GTGCAGTCCATCAGATCCAAGCCTGT CTCTTGAGGAACAACCGCGCAGAC

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4948	Table 1	NA	AW499658	7111531	UI-HF-BR0p-aj-c-07-0-UI.r1 NIH_MGC_52 cDNA clone IMAGE:3074877 5', mRNA sequence	1	TGGTGGCAAATCTGATTTTTGGAAC GAGTATTGGAGGACTATAAAACAA
4949	Table 1	NA	AW499828	7111870	UI-HF-BN0-ake-c-06-0-UI.r1 NIH_MGC_50 cDNA clone IMAGE:3076619 5', mRNA sequence	1	ACATTTCTTGTGGCACTACAGCAAC CACATACAGTACAGAACCTCCA
4950	Table 1	Hs.145668	AW500534	7113240	fmfc5 cDNA /clone=CR6-21	1	CCTGGCACATGTTGTCTGGAGTCTGG CACACTGGTATCAATAGCAGCAAT CTGTGGTCTGTATATGAGAGAGATC CTTAACTAGAGCAAGAGGGAGT
4951	Table 1	Hs.120996	AW504293	7141960	serine/threonine kinase 17b (apoptosis- inducing) (STK17B), mRNA /cds=(261,1379)	1	TCTCTCACTGTTATCATTTTTGCACAG GTGGTTTCAGCAGCTTGATGCCA AATCACAGCAGTAACCTCCAGTAGGA AAGATTCTCAAAGGAATAGTCTT CCTGGCCTTCAAGAGTCTAGTGG CTATTTCTTTGGACAAAGTAAGA
4952	Table 1	Hs.194589	AW945538	8123293	AV703056 cDNA, 5' end /clone=ADBCMB06 /clone_end=5'	1	ATAGACAGACGGAGGTCTGATATCC ATGGGCCAACGGCTTGGATTATTC
4953	Table 1	NA	BE177661	8656813	RC1-HT0598-020300-011-h02 HT0598 cDNA, mRNA sequence	1	GATATTGGTAGTAAAGGGTTACCTG TGAACCTCCAAATTCCTTGGGGC
4954	Table 2	NA	BE253336	9123402	601117146F1 NIH_MGC_16 cDNA clone IMAGE:3357826 5', mRNA sequence	1	GGTGAGAAATCAAAACGACCCCGCA AATAAACATGGCGATTGGCTTGGG
4955	Table 1	Hs.343565	BE540808	9769453	601510248F1 cDNA, 5' end /clone=IMAGE:3912034 /clone_end=5'	1	GATATCAGACAGCATCGTCTCTGCGA GCACAAAGATCTGTTGTCTGAGCA ACATTTTATAAGGCATTGTGTAGCC ACTCAGTCATCTTTGGGTGCTGC ATCTGGAGTGGGACCTTCAAGCCAT GTCTGTGCTTATCGGGAAACAAAT
4956	Table 2	NA	BE569141	9812861	601338954F2 NIH_MGC_53 cDNA clone IMAGE:3681180 5', mRNA sequence	1	AATTAACGGCCATCACACCCACGACT GACGGTGATCAAAACAAATTCACAG GACAGTACTCCTAAGACCCCTGTGTG TGTCCGATGAGATCATGACTGGG
4957	Table 1	Hs.271272	BE737348	10151340	DKFZp434K1715_r1 cDNA, 5' end /clone=DKFZp434K1715 /clone_end=5'	1	CTGTGATATTTTGGTCATGGGCTGGT CTGGTCGGTTTCCCATTTGTCTGG
4958	Table 2	Hs.20225	BE792125	10213323	tuftelin-interacting protein (TIP39), mRNA /cds=(283,2776)	1	CTCATAGCATAGCCAGCATTAGCAC ACACAAACCTACTGCCACATTTG
4959	Table 1	Hs.31314	BE872245	10321021	retinoblastoma-binding protein 7 (RBBP7), mRNA /cds=(287,1564)	1	CACATTTGAAGGCCAAAGGGAAACG GGGGAAGCGGAAGGGTTGGATTGG
4960	Table 2	NA	BE884898	10333874	601508831F1 NIH_MGC_71 cDNA clone IMAGE:3908551 5', mRNA sequence	1	TACGACCACTGAGAAACGGGCCACC CGGCACACGGATCTTGAACACAAA CTCAGTGTAGGGCGACAGGCTTAA CACCAACATAAGGTACTAGCAGTGT AGGTTGTGGGGAGTATGTTGGACCA AAAAATAAATATTGTGGGAGGGA TGATAGCTCACTAGTTAATTTGTTTG AAGCAAATTTGGGTTGGATGGG ACTACTGCTTGCCTACCTCTCCGCTT TCCCTCTCCTTACTATCGACCATA GGTCCGACCAATTAATGACTCCATGA TCGGCCTCGGTTTTCACAAACCTT
4961	Table 1	Hs.250824	BE887646	10343176	cDNA: FLJ23435 fis, clone HRC12631 /cds=UNKNOWN	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4962	Table 1	NA	BE896691	10361375	601440131F1 NIH_MGC_72 cDNA clone IMAGE:3925062 5', mRNA sequence	1	AAATGGCTTTACCAAACATTGTCAGT ACCTTTACGTGTTAGAAGGCATTT CTTTCACAGCAATTGTTGTACGA GGGGCCTTACAGCGCGGTCCACTT CCCTACTTGATTAAAGATTGAGGTGG AATCTAGATGTGGCTATTCGTGT ACAGAGAGTCAACCGCGAGTACGAA ACAGGCACATTTTATAGAACTCACA AGAAATGGTACGGGAATGTGAATAA CACGAAATGGTATGGGGAATGTG
4963	Table 1	Hs.337986	BF033741	10741453	Homo sapiens, clone MGC:17431 IMAGE:2984883, mRNA, complete cds /cds=(1336,1494)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4964	Table 1	Hs.268177	BF339088	11285508	phospholipase C, gamma 1 (formerly subtype 148) (PLCG1), mRNA /cds=(76,3948)	1	AAATGGCTTTACCAAACATTGTCAGT ACCTTTACGTGTTAGAAGGCATTT CTTTCACAGCAATTGTTGTACGA GGGGCCTTACAGCGCGGTCCACTT CCCTACTTGATTAAAGATTGAGGTGG AATCTAGATGTGGCTATTCGTGT ACAGAGAGTCAACCGCGAGTACGAA ACAGGCACATTTTATAGAACTCACA AGAAATGGTACGGGAATGTGAATAA CACGAAATGGTATGGGGAATGTG
4965	Table 1	Hs.2554	BF341359	11287850	sialyltransferase 1 (beta-galactoside alpha-2,6-sialyltransferase) (SIAT1), mRNA /cds=(310,1530)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4966	Table 1	Hs.334825	BF530382	11617745	cDNA FLJ14752 fis, clone NT2RP3003071 /cds=(205,1446)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4967	Table 1	Hs.79530	BF663116	11937011	M5-14 protein (LOC51300), mRNA /cds=(186,1043)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4968	Table 1	Hs.46677	BF667621	11941516	PRO2000 protein (PRO2000), mRNA /cds=(650,1738)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4969	Table 1	Hs.27590	BF671020	11944915	histone acetyltransferase (MORF), mRNA /cds=(315,6536)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4970	Table 1	Hs.71331	BF691178	11976586	hypothetical protein MGC5350 (MGC5350), mRNA /cds=(189,995)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4971	Table 1	Hs.337534	BF965068	12332283	602268833F1 cDNA, 5' end /clone=IMAGE:4356776 /clone_end=5'	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4972	Table 1	Hs.334691	BF965438	12332653	hypothetical protein FLJ22427 (FLJ22427), mRNA /cds=(40,2631)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4973	Table 1	Hs.279681	BF965960	12333175	heterogeneous nuclear ribonucleoprotein H3 (2H9) (HNRPH3), transcript variant 2H9, mRNA /cds=(118,1158)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4974	Table 1	Hs.5324	BF966028	12333243	hypothetical protein (CL25022), mRNA /cds=(157,1047)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4975	Table 1	Hs.179902	BF966049	12333264	transporter-like protein (CTL1), mRNA /cds=(0,1864)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4976	Table 1	Hs.109441	BF969847	12337082	cDNA FLJ14235 fis, clone NT2RP4000167 /cds=(82,2172)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4977	Table 2	Hs.289721	BF981634	12384446	cDNA: FLJ22193 fis, clone HRC01108 /cds=UNKNOWN	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4978	Table 1	Hs.125819	BG034799	12428458	putative dimethyladenosine transferase (HSA9761), mRNA /cds=(78,1019)	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC
4979	Table 1	Hs.34906	BG111773	12605279	601820448F1 cDNA, 5' end /clone=IMAGE:4052578 /clone_end=5'	1	AGACAAAGAGAGCATAAATATAGCTC TACTCATGGGTACCATACCACTGT GCAGGTTATCGCAAGATGTCTTAGAG TAGGGTTACGGTTCTCAGTGACAC

Table 8

4980	Table 1	NA	BG118529	12612035	802348464F1 NIH_MGC_90 cDNA clone IMAGE:4443519 5', mRNA sequence	1	TGTTCTTGCTGCTGTTATCTATACT ATTTTGTTCGTCGCTTCTGACT
4981	Table 1	Hs.285729	BG163237	12669951	602013364F1 cDNA, 5' end /clone=IMAGE:4149351 /clone_end=5'	1	GTCTGGGTGCCAACTTGAGACAGGT GGTCTAGGAAATTGCGGTAAGAGCG
4982	Table 2	Hs.111554	BG164898	12671532	ADP-ribosylation factor-like 7 (ARL7), mRNA /cds=(14,592)	1	CCCCTGTTTTCTCGTTCTGCCTCCT TTGGACCTGTGTTTGTCTTCTGCT
4983	Table 1	Hs.193482	BG165998	12672701	cDNA FLJ11903 fls, clone HEMBB1000030 /cds=UNKNOWN	1	CCCTTAGAATGGTACTGCCCTTGAA TTAACTTGACACAACCTGGGTGG
4984	Table 1	Hs.83731	BG179257	12685889	CD33 antigen (gp67) (CD33), mRNA /cds=(12,1106)	1	AGGCTGATTCTTGGAGATTTAACACC CCACAGGCAATGGGTTTATAGACA
4985	Table 1	Hs.278428	BG286817	13040034	progesterin induced protein (DD5), mRNA /cds=(33,8432)	1	TCTCCTTTCAGTTCTTTGTAGGATTT CTGGGCTTGAAGGATAGTCTTCA
4986	Table 1	Hs.173830	BG289048	13044499	602383868F1 cDNA, 5' end /clone=IMAGE:4512712 /clone_end=5'	1	ATACTGTGTGATTGCCCTTGCTGTC CAACCTGTCTTCTGCTGCCATTTA
4987	Table 1	Hs.129872	BG290577	13047679	sperm associated antigen 9 (SPAG9), mRNA /cds=(110,2410)	1	AGAATGTCCCACTTGCTGCTCTTAG AGGCTGAGCTTCATTCTTATGAGC
4988	Table 1	Hs.170980	BG387894	13281140	cell cycle progression 2 protein (CPR2), mRNA /cds=(126,1691)	1	CAACCTCTGGAGAGTGCCTACTGTTA GAAGCTGAAGGGATGTCAAAGTCA
4989	Table 1	Hs.266175	BG391695	13285143	cDNA FLJ20673 fls, clone KAI4464 /cds=(104,1402)	1	CTTTAAATCTTAGATTGCTCCGACACA GATAAAGAGAACCAGGATTGGGGC
4990	Table 1	Hs.58643	BG397564	13291012	602438603F1 cDNA, 5' end /clone=IMAGE:4564988 /clone_end=5'	1	GCCTCAGTACAGAGGGGGCTCTGGA AGTGTGTTGTTGACTGAATAACGGA
4991	Table 1	Hs.24054	BG489375	13450885	hypothetical protein GL009 (GL009), mRNA /cds=(77,828)	1	AGGACTTAACGGGAATACGGGAATAA CTCCAATTACTTCATCTTAGGGC
4992	Table 1	Hs.29131	BG497765	13459282	nuclear receptor coactivator 2 (NCOA2), mRNA /cds=(162,4556)	1	TGCCTAAGAGCAAAGCATCCTCTGCG ACAAAAGAAAATTACTGTAGTGGC
4993	Table 2	Hs.172089	BG501063	13462580	mRNA; cDNA DKFZp586i2022 (from clone DKFZp586i2022) /cds=UNKNOWN	1	AAACACACAGGAAAAGGGCAAAGGG GGCACCAGGAGAACCGGGAGACAAA
4994	Table 1	NA	BG501895	13463412	602548201F1 NIH_MGC_61 cDNA clone IMAGE:4654344 5', mRNA sequence	1	GACATGGAGCCCCGGAAAAGCGGG TCTGGACACCAAGTCGATGTGTGAG
4995	Table 1	Hs.3280	BG505981	13467478	caspase 6, apoptosis-related cysteine protease (CASP6), transcript variant alpha, mRNA /cds=(78,959)	1	ACAGAATCAGATTTTGCAGGTGTCCA ACCTATAGTGGCTAAGAAATTATGT
4996	Table 1	Hs.279009	BG532345	13523883	matrix Gla protein (MGP), mRNA /cds=(46,357)	1	AAACTGTTTGGAGAATTTAAGCACTC TCTGATGGGGGACAACTCTATGGA
4997	Table 1	Hs.74647	BG536394	13527940	T-cell receptor active alpha-chain mRNA from JM cell line, complete cds /cds=(138,989)	1	AATAATTGGTCTTTTAAACAAACACG GAAGTTTGGTGAATCGGTCTATGT
4998	Table 1	NA	BG542394	13534627	602571761F1 NIH_MGC_77 cDNA clone IMAGE:4696046 5', mRNA sequence	1	TGTGGCGATTAAGAGAGGTGAAGCAT AAGTATTGTCAGGATATGGTTTG
4999	Table 1	Hs.83077	BG547627	13546292	interleukin 18 (interferon-gamma-inducing factor) (IL18), mRNA /cds=(177,758)	1	GCAGAACTCTAATTGTACGGGGTCA AGAGCGGTGATATGGTATCCCAA
5000	Table 1	Hs.301497	BG566035	13573688	arginine-tRNA-protein transferase 1-1p (ATE1) mRNA, alternatively spliced product, partial cds /cds=(0,1544)	1	TGGAGATCCTTCTACTTGGCTGCTGT ATTCATGCATTATGTTGGTTTGAG
5001	Table 1	Hs.343475	BG566964	13574617	601558208T1 cDNA, 3' end /clone=IMAGE:3826392 /clone_end=3'	1	ATTTGTACCAAATCTTTGGGATTCATT GGCAAATAATTTCAAGTGTGGTGT
5002	Table 1	Hs.11050	BG571068	13578721	mRNA; cDNA DKFZp434C0118 (from clone DKFZp434C0118); partial cds /cds=(0,1644)	1	GGTTTTCAGAGTCTTTAGCCCGTGG TATTTCAAGTGTGGGTTTCATAGC
5003	Table 1	Hs.194110	BG571747	13579400	hypothetical protein PRO2730 (PRO2730), mRNA /cds=(183,596)	1	GGGAGCCATAAGAAGCACTCCAAAAA GAGCCCCAAGGAGGACAAGGGGG
5004	Table 1	Hs.306155	BG572371	13580024	chorionic somatomammotropin hormone 1 (placental lactogen) (CSH1), transcript variant 2, mRNA /cds=(116,888)	1	TCAGGCTCTTGGATACTCAAGAGAAA GGAGACTTGTGGTTAATGTTTGA
5005	Table 1	Hs.301756	BG573202	13580855	Homo sapiens, clone MGC:17544 IMAGE:3462146, mRNA, complete cds /cds=(256,894)	1	TCCTTAGCACACGAAAAAGCCCTTC CCCTGGATTCATGTTTCTTATTTT
5006	Table 1	Hs.79101	BG575739	13583392	cyclin G1 (CCNG1), mRNA /cds=(187,1074)	1	AAGCAAGTAGACACCTTCATAACTAT GAATGAAGCTGCTGAAGTAGTGT
5007	Table 1	Hs.172780	BG611117	13662488	602343016F1 cDNA, 5' end /clone=IMAGE:4453466 /clone_end=5'	1	TCCATTAAAGATCGCAAATGTTGAGG TCCTGTAGCCTGAAAACCTCTCTGC
5008	Table 1	Hs.5084	BG614405	13665776	602490910F1 cDNA, 5' end /clone=IMAGE:4619835 /clone_end=5'	1	CTGATTCAAACAGGTTCCAACGTAAA ACGTTACACTCCACCATTTCT
5009	Table 1	Hs.86437	BG615272	13666643	602411368F1 cDNA, 5' end /clone=IMAGE:4540096 /clone_end=5'	1	TGATGTTGGTATGCTTGCCCTGTTAC TTATAGACAGTCTTTGTCATAGGC



Table 8

5010	Table 1	Hs.111911	BG617515	13668888	602540462F1 cDNA, 5' end /clone=IMAGE:4671519 /clone_end=5'	1	GGTCTTTGTCCAGTAGAGTTTCATAG TCTATTTAGTGTGCATGTTTTTCC
5011	Table 1	Hs.326392	BG618351	13669722	son of sevenless (Drosophila) homolog 1 (SOS1), mRNA /cds=(0,3998)	1	TTGTGTCCAAAAGTGTTAACGAAGAC TACTTAACCCAATGATTGGCGCGA
5012	Table 1	NA	BG622313	13673684	602646981F1 NIH_MGC_79 cDNA clone IMAGE:4768413 5', mRNA sequence	1	ATGCGTGGATATTGAGAACTTAGGTG TCTAATGGGAGGATTATTGCTGT
5013	Table 1	Hs.173334	BG674441	13905837	ELL-RELATED RNA POLYMERASE II, ELONGATION FACTOR (ELL2), mRNA /cds=(0,1922)	1	AAGCATTTCCATTTCACAGAGTTTGT CAGCTTTATTAATGTTGGGCAAAA
5014	Table 1	Hs.343615	BG675211	13906607	602621493F1 cDNA, 5' end /clone=IMAGE:4755166 /clone_end=5'	1	AAACCTACCACCTTTAAGAAGACAGCG ATGGGTAATCTTTATTGGCAGGT
5015	Table 1	Hs.250905	BG675786	13907182	hypothetical protein (LOC51234), mRNA /cds=(0,551)	1	ATTCAGCATTAGTTTCTCACATCTTCC CCCAGGTATCCCAACAGAATTA
5016	Table 1	NA	BG676788	13908185	602623378F1 NCI_CGAP_Skn4 cDNA clone IMAGE:4748322 5', mRNA sequence	1	ACACCTCTCTTAGGGCTCCATCAAAC AGAACCTTTAGACTGAGTAACGCT
5017	Table 1	Hs.21812	BG676903	13908300	AL562895 cDNA /clone=CSODC021Y020-(3-prime)	1	AAGTTTGTGCAGCACATTCCTGAGTG TACGATATTGACCTGTAGCCGAGC
5018	Table 2	Hs.171802	BG678827	13910224	RST31551 cDNA	1	ACCATGAACAGTGTGTTGCTTCAGAC TATTACAAAGAGAATGGGCGAGGT
5019	Table 1	Hs.12396	BG679427	13910824	602302446F1 cDNA, 5' end /clone=IMAGE:4403866 /clone_end=5'	1	TTTTTGAAAGATATGTTGGTAGAAAT TAGTTGTATGCCCTCAGGACGGT
5020	Table 1	Hs.4248	BG679682	13911059	vav 2 oncogene (VAV2), mRNA /cds=(5,2841)	1	GAAATTAGTGTGAACATGTGGGAAGC CCGATGCATGTGGGTGAGGGATCT
5021	Table 1	Hs.182937	BG681320	13912717	peptidylprolyl isomerase A (cyclophilin A) (PPIA), mRNA /cds=(44,541)	1	TCCCTGGGTGATACCAATCAATGTCT TAATGTACTTGTGGCTCAGACCTG
5022	Table 1	NA	BG682704	13914101	602629666F1 NCI_CGAP_Skn4 cDNA clone IMAGE:4754273 5', mRNA sequence	1	CAGACAGCACAGCCTGAGGGTAGCA GCAGCCACCATGTTTCAAGTAAGTC
5023	Table 2	Hs.250465	BG707815	13984138	mRNA; cDNA DKFZp434E2023 (from clone DKFZp434E2023) /cds=UNKNOWN	1	GCCATGAGGTGGAGGACGTGGACCT GGAGCTGTTCAACATCTCGGTGCAG
5024	Table 1	Hs.235883	BG708357	13985618	602628774F1 cDNA, 5' end /clone=IMAGE:4753483 /clone_end=5'	1	TCTGCACCCAAACAAATACCTTTTGA GATTTCTTATAGGCATTCCTCTCG
5025	Table 1	Hs.119960	BG709079	13987060	mRNA; cDNA DKFZp727G051 (from clone DKFZp727G051); partial cds /cds=(0,1423)	1	GAAGCTCTGCCGAGCGCCAGGCAC TTCCTACACCACTACTACGTCACCG
5026	Table 1	Hs.87908	BG709315	13987530	Snf2-related CBP activator protein (SRCAP), mRNA /cds=(210,9125)	1	CAGCTCGGACCACCGCCACCTCCCT TTTTATTACAGATCACCCAGTAAG
5027	Table 1	Hs.10056	BG720359	13999546	hypothetical protein FLJ14621 (FLJ14621), mRNA /cds=(525,1307)	1	GGTCCCTCTCTGGAGACTCCCTCAC AAAATCTTTCCCAAGCTGTTCCCC
5028	Table 1	Hs.6986	BG723274	14002461	glucose transporter pseudogene /cds=UNKNOWN	1	TGAATGGGCGTTTATCTTAATGACCA GTTATTGACCAAGTCACTCAGA
5029	Table 1	Hs.181392	BG740787	14051440	major histocompatibility complex, class I, E (HLA-E), mRNA /cds=(7,1083)	1	AGCCTATCTCTATTCTCTAGCCTATTC CTTACCACCTGTAATCTTGACCA
5030	Table 2	Hs.86543	BG743518	14054171	602495247F1 cDNA, 5' end /clone=IMAGE:4609330 /clone_end=5'	1	GCAATGGGCGGCCAACTATGAACCC TACGTGGTGGTGCCACGACTGTC
5031	Table 1	Hs.77202	BG743900	14054553	protein kinase C, beta 1 (PRKCB1), mRNA /cds=(136,2151)	1	GCCTGGAGCTTGGCTTTGTATCCAAG TGTATGGTTGCTTTGTCTAAGAGG
5032	Table 2	Hs.95835	BG747862	14058515	RST8356 cDNA	1	AGGGAGACTCTCAGCCTTCAGCTTCC TAAATCTGTGTCTGTGACTTTCC
5033	Table 1	Hs.204959	BG758569	14069222	hypothetical protein FLJ14886 (FLJ14886), mRNA /cds=(111,1169)	1	AGCCTACAAGCCACTCGCCACTGT GAACCTTGCTGCTCACTTTGGATGTC
5034	Table 2	Hs.37617	BG760189	14070842	602144947F1 cDNA, 5' end /clone=IMAGE:4308683 /clone_end=5'	1	CCTGCTCACAGACCAGAACTCTACA AGCTGGACCTGACCGGCAGTACC
5035	Table 1	Hs.182447	BG766957	14077610	heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRPC), transcript variant 1, mRNA /cds=(191,1102)	1	AGCAGTTCACAGTGTTCACACTAC AGGATTAAATATTTTGCTCCAGA
5036	Table 2	Hs.301226	BG768471	14079124	mRNA for KIAA1085 protein, partial cds /cds=(0,1755)	1	CCTTTATCCACCTGGATTTTAGGGAC AAACACTGAAACGAATAAGTCCA
5037	Table 2	Hs.301226	BG768471	14079124	mRNA for KIAA1085 protein, partial cds /cds=(0,1755)	1	CCTTTATCCACCTGGATTTTAGGGAC AAACACTGAAACGAATAAGTCCA
5038	Table 1	Hs.124675	BG772681	14083314	ob13b08.s1 cDNA, 3' end /clone=IMAGE:1323543 /clone_end=3'	1	CAGAGAAACGAAAGTCAAGTGCAGCG AGTTGGTGGAAGCTGATAGAGCAA
5039	Table 2	Hs.301226	BG775621	14045938	mRNA for KIAA1085 protein, partial cds /cds=(0,1755)	1	CCACAAACCATTGATCAGGCAGTCTT GCTGACCTGTTCTTAAGGACAC
5040	Table 1	Hs.180450	BG820627	14168214	ribosomal protein S24 (RPS24), transcript variant 1, mRNA /cds=(37,429)	1	AAGAACTATGTAGCATAGTGTCTTA ACACCTCAGTAAAGTAAGCTGGCC



Table 8

5041	Table 1	Hs.1432	BG913430	14293906	protein kinase C substrate 80K-H (PRKCSH), mRNA /cds=(136,1719)	1	AGCAGGAGACAGCTTCTGATCTAGA TGACAAATTAGAGTTTAGGTTGGA
5042	Table 1	Hs.247474	BG913498	14293974	hypothetical protein FLJ21032 (FLJ21032), mRNA /cds=(235,1005)	1	TGGAAGTAGTCACAAATGAAGTTCTT CATCCAGTAGGTGTTAAACAGTGT
5043	Table 1	Hs.72988	BI086609	14504939	signal transducer and activator of transcription 2, 113kD (STAT2), mRNA /cds=(57,2612)	1	CCCACACAAGTGCGCCACATAAATCT CCGAGACTCCACGACAACACAGGG
5044	Table 1	Hs.288036	BI086741	14505071	tRNA Isopentenylpyrophosphate transferase (IPT), mRNA /cds=(60,1040)	1	GCAAAACAAGTTCTAAAGTTGTGGAGA AAAAGTGATGTGGTCAAGAGTTGA
5045	Table 1	Hs.131887	BI090806	14509136	602415255F1 cDNA, 5' end /clone=IMAGE:4523725 /clone_end=5'	1	GCAAGAAAGAGAAACGTAACACAGA TAGAGATTCTGCCTGTGCTTTGGT
5046	Table 1	Hs.287797	BI091791	14510121	mRNA for FLJ00043 protein, partial cds /cds=(0,4248)	1	GAGAGTTGCTGGTGTAATAACGTTT GAAATAGTTGATCTACAAAGGCCA
5047	Table 1	Hs.146381	BI092128	14510458	RNA binding motif protein, X chromosome (RBMX), mRNA /cds=(11,1186)	1	GGTTAACGCTTCTGTGAGGACCTTCT: GGCTCTTGAGATACCCCTAAATATT
5048	Table 1	Hs.75249	BI092568	14510898	mRNA for KIAA0069 gene, partial cds /cds=(0,680)	1	ACTTTCATTGGTAAATAAGCCTGTCTT CCTATCTGGATTCTTGGTGTGCA
5049	Table 1	Hs.73965	BI093470	14511800	splicing factor, arginine/serine-rich 2 (SFRS2), mRNA /cds=(155,820)	1	CAGTTATTTAAAGGCTGACAACTGCC TTCCAGACCCGCGCTGTATTATAA
5050	Table 1	Hs.104679	BI094249	14512579	Homo sapiens, clone MGC:18216 IMAGE:4156235, mRNA, complete cds /cds=(2206,2373)	1	TGGTGGGTACAGAAACATTGTGCACAG GGATCCTGGAACAGAGGAAGAGTT
5051	Table 1	Hs.7905	BI193299	14648319	SH3 and PX domain-containing protein SH3PX1 (SH3PX1), mRNA /cds=(43,1830)	1	TTCTGACCTAATAATTACGGGAAATG GAAAGTCTGGGCCAGCATCAATAA
5052	Table 1	Hs.217493	BI195901	14650921	annexin A2 (ANXA2), mRNA /cds=(49,1068)	1	TGGGTGCGCAAGCTATTATAACTTT GAATGCTAACGGCATGTTGACCT
5053	Table 1	Hs.33026	BI198202	14653223	mRNA for FLJ00037 protein, partial cds /cds=(3484,3921)	1	GCTGTGTCCTTTCTGGCACAATCGGG GATTCCATTCTTTAGACACTGGAA
5054	Table 1	Hs.179661	BI222978	14678422	Homo sapiens, tubulin, beta 5, clone MGC:4028 IMAGE:3817988, mRNA, complete cds /cds=(1705,3039)	1	TTGACAAAGATGACATCGCCCAAGA GCCAAAAATAATGGGAATTGAAA
5055	Table 1	Hs.23158	BI224666	14678110	600943902F1 cDNA, 5' end /clone=IMAGE:2966352 /clone_end=5'	1	GTAAGATCAGAATACCAAGGCCAGC: TAAGGCAACGACTCCCTCCCCAAA
5056	Table 1	Hs.218387	H03298	866231	tc88c11.x1 cDNA, 3' end /clone=IMAGE:2073236 /clone_end=3'	1	ATACGGGACAATAAAATCTGCCTTTT GCTCTGGAGGGAGATACTACCTCT
5057	Table 1	Hs.178703	H56344	1004988	AV716627 cDNA, 5' end /clone=DCBBCH05 /clone_end=5'	1	ATGCTGGTGTGTCATGTGACATTGTTG AGTCTCGGGCATGTTACGGTGGG
5058	Table 1	NA	H57221	1010053	yr08e08.r1 Soares fetal liver spleen 1NFLS cDNA clone IMAGE:204710 5', mRNA sequence	1	GGAAATTGTGCCAAAACCATGGAAAA TATTACTGTGTGTGGGTGTCTGT
5059	Table 1	Hs.74002	H81660	1059749	mRNA for steroid receptor coactivator 1e /cds=(201,4400)	1	TTTGTGTGTGAATATAACATTGATTG AATTGCAGTTACATTGGTTAGT
5060	Table 1	Hs.5122	N31700	1152099	602293015F1 cDNA, 5' end /clone=IMAGE:4387778 /clone_end=5'	1	AACATTCTACATAGCAGGAGCTTA AGAGTGGCATTATCTTCTCGCCTT
5061	Table 1	NA	R11456	764191	yt46a09.r1 Soares fetal liver spleen 1NFLS cDNA clone IMAGE:128880 5' similar to gb U87943 HUMALU4 7101d11.x1 cDNA, 3' end /clone=IMAGE:3293397 /clone_end=3'	1	TAAGGTTAGGCAATAACTTAGGGGTA TATTCTCTTCTGCATCCCAAGTGC
5062	Table 1	Hs.208603	R64054	835933	7101d11.x1 cDNA, 3' end /clone=IMAGE:3293397 /clone_end=3'	1	TAAGGTTGTTTCTGGGGGATGTTGTG TGTATTAGGGGAGTGTTCCCTTG
5063	Table 1	NA	R85137	943543	yo41c07.r1 Soares adult brain N2b4HB55Y cDNA clone IMAGE:180492 5', mRNA sequence	1	AAAACATTGCCAGACCATTTAGTCCT CTTGGGAAGGGCTCTCCGGTGGG
5064	Table 1	NA	T80378	698887	yd05c01.r1 Soares infant brain 1NIB cDNA clone IMAGE:24693 5', mRNA sequence	1	CGGGGGAATAGGAGCAAAAAACATGG CATGGAACAAACAGGAAAAAAGGT
5065	Table 1	NA	T80654	703539	yd22a08.r1 Soares fetal liver spleen 1NFLS cDNA clone IMAGE:108950 5', mRNA sequence	1	ACTGGTGTGGTGCTTTTGTCTGTCA: TACCATAGTATTTTCAAACTTCA
5066	Table 1	Hs.44189	W00466	1271875	yz99f01.s1 cDNA, 3' end /clone=IMAGE:291193 /clone_end=3'	1	CCTTGAGAAACCCCATCTCCACTTC CTAGACAAACCAATGAACATTAGT
5067	Table 1	Hs.306117	W16552	1290934	capicua protein (CIC) mRNA, complete cds /cds=(40,4886)	1	AACTGTGAGGCAATAAAATGCTTCT CAAACTGTGTGGCTCTTATGGGGT
5068	Table 1	Hs.17778	W19201	1295429	neuropilin 2 (NRP2), mRNA /cds=(0,2780)	1	CTAAGTCATTGCAGGAACGGGGCTG TGTCTCTGCTGGGACAAACAGGA
5069	Table 1	Hs.340717	W25068	1302933	we58c01.x1 cDNA, 3' end /clone=IMAGE:2345280 /clone_end=3'	1	GCCGTTCTTTATAGACAATTCTTTTC TCTTCTCTTGAATGTGGCAGTCA
5070	Table 1	Hs.8294	W80882	1391906	KIAA0196 gene product (KIAA0196), mRNA /cds=(273,3752)	1	AGCCTACCTCCCTACCCCAAGCTGTC TGTTGAGAGCAGTGCTGACCCAG
5071	Table 3A	Hs.133543	AA251316	1886279	EST378950 cDNA	-1	TTTCATAACCCACTCCTCTCTTCA CCCACTTGCAATCCGCATGCTTC
5072	Table 3A	Hs.96487	AA524555	2265483	7q23f08.x1 cDNA, 3' end /clone=IMAGE:3699226 /clone_end=3'	-1	CAAGTTGGTTTATGTTATGTAACACC TGACATGATGAGGAAAAACACCT

Table 8

5073	Table 3A	NA	AA628833	2541220	af37g04.s1 Soares_total_fetus_Nb2HF8_9w cDNA clone IMAGE:1033878 3', mRNA sequence	-1	GACTCGTTACGCCGTAGTTTGTCCCTA TCTTGTTTATCAAAATGAATTCGT
5074	db mining	NA	AA701193	2704358	zj80c03.s1 Soares_fetal_liver_spleen_1NFLS_S1 cDNA clone IMAGE:461188 3' similar to gb:M11124 HLA C	-1	AGCCGCCAGCTACTTAATCCCTCAG TAACATCTATCTAAATCTCCCATG
5075	Table 3A	Hs.307486	AA729508	2750867	nx54a03.s1 cDNA /clone=IMAGE:1266028	-1	TGGCCTGTGCTTTTACCACACCGTCA AACCCTTGATCATTTCTGTAAACA
5076	Table 3A	Hs.104157	AA765569	2816807	EST380899 cDNA	-1	ACATTCTGATAGTCCAGGGGCTCAAC AACTTTGGCCTTTTCCAGCACCAC
5077	db mining	Hs.220649	AA774984	2834318	QV1-GN0320-051200-552-b08 cDNA	-1	TCAGCAGTTGTGCCCTTTCTCACAGA TCCAGCCGCTCTCTCGCTGTCCAC
5078	db mining	Hs.192078	AA884466	2993996	te30h04.x1 cDNA, 3' end /clone=IMAGE:2087479 /clone_end=3'	-1	TGCAAGCAATAAAATCTTGCTTTAATC AGTAACCACTGTCTGACAGGACA
5079	db mining	Hs.194249	AA907080	3042540	HOA43-1-G6.R cDNA	-1	GGTCGTAGAGAAGACAGCAAGGGAG GGGATAAAACCCAGGAAGGACTTAA
5080	Table 3A	Hs.143254	AA961072	3127626	EST388440 cDNA	-1	GGCTCACGATGACAACCGCTACGG AAAACTCTAATTCCTAAACATCTA
5081	db mining	Hs.163271	AF343666	13591717	translocation associated fusion protein IRTA1/IGA1 (IRTA1/IGHA1) mRNA, complete cds /cds=(136,402)	-1	GACAAGCCAGGTGAGCCAGATTGC CAAAGCAGCACTTGCCTACACCAGC
5082	Table 3A	Hs.46478	AI018105	3232624	EST386846 cDNA	-1	GGTTCCCTTGAAGCAGTGCCAACTA AATCTACCTCAGGTAAGTAGTTAG
5083	Table 3A	Hs.238954	AI031624	3249836	602637935F1 cDNA, 5' end /clone=IMAGE:4765448 /clone_end=5'	-1	GCTGACAGTATGGAGGCTAAAGGTG TGGAGGAACCAGGAGGAGATGAGTA
5084	db mining	Hs.133261	AI052754	3308745	oy78e01.x1 cDNA, 3' end /clone=IMAGE:1671960 /clone_end=3'	-1	CAAGTGTGCCGGGCAAGTTTGGGAA GGTGAAGCAATCTGTGACTTAAATA
5085	db mining	Hs.292803	AI056470	3330336	oy77d03.x1 cDNA, 3' end /clone=IMAGE:1671845 /clone_end=3'	-1	GAGCTACTCAAGGGGAAAAAGGGC ATATAGTATGCTCTGGTAGTAAAGT
5086	db mining	Hs.6733	AI057025	3330814	phosphoinositide-specific phospholipase C PLC-epsilon mRNA, complete cds /cds=(235,7146)	-1	GCTCAAGATCACCTCTTTGTCTCTT GAACAATGTTTTCTCTCTAGGT
5087	db mining	Hs.133930	AI073993	3400637	oy66d03.x1 cDNA, 3' end /clone=IMAGE:1670789 /clone_end=3'	-1	TGGTGATAATAGAGATTGTTTCTGCC CTGGGGGTAGTTCAAGGATAACAC
5088	db mining	Hs.133949	AI074528	3401172	oy79d05.x1 cDNA, 3' end /clone=IMAGE:1672041 /clone_end=3'	-1	CTTCAGGTTTGGCCAGCCCTCCTT GAAGACTCCTTCCATCCAGTCAAG
5089	db mining	Hs.134018	AI076071	3405249	oy60b11.x1 cDNA, 3' end /clone=IMAGE:1672125 /clone_end=3'	-1	CCCAAGTGAAGTCAAAAGTTACTGTGT GGTTGATAGGGAACATGGCTGGAT
5090	db mining	NA	AI081253	3418045	oy67c02.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:1670882 3' similar to gb:X64707 BREAST BASIC CONSERVED PR	-1	ACCCGCAGACCAGATGGTTGAAAGG AAAAATTAAAGCCTTCTTGGGGATT
5091	db mining	Hs.134590	AI081258	3418050	oy67c11.x1 cDNA, 3' end /clone=IMAGE:1670900 /clone_end=3'	-1	GGAGTTAGATCAACCTTATGGGGAAG GGAAAGGCAGGGCTTGTGACAATT
5092	Table 3A	Hs.105621	AI084553	3422976	HNC29-1-B1.R cDNA	-1	GATGGCTGCTTGGTTGCTAAACCCAG ACAGGGTCTTCCAGTGCACTGTC
5093	db mining	Hs.230775	AI085588	3424011	oy68d10.x1 cDNA, 3' end /clone=IMAGE:1670995 /clone_end=3'	-1	CATTTGTGGGTGGAGGGTTTGAATG TCCTCTTCCATGTCAGGCAAGG
5094	db mining	Hs.146591	AI086023	3424446	oy70f10.x1 cDNA, 3' end /clone=IMAGE:1671211 /clone_end=3'	-1	TTCTATGAAGGTTTCCCTGGACAAGA AACTGCCAGAGAGCCCTTAGTCTCA
5095	Table 3A	Hs.23158	AI097125	3446707	600943902F1 cDNA, 5' end /clone=IMAGE:2966352 /clone_end=5'	-1	TGCTGAATGTACCTGAGTGTATGTAT TTAAAAGACTCACATGGGCATCA
5096	db mining	Hs.150708	AI122689	3538455	oy79f03.x1 cDNA, 3' end /clone=IMAGE:1672061 /clone_end=3'	-1	TCTCAACCCTAATATTCTTGTTCATG GAGCATTGTGAGGTTTGGATGG
5097	db mining	Hs.326995	AI144314	3666123	oy84f01.x1 cDNA, 3' end /clone=IMAGE:1672537 /clone_end=3'	-1	ACAAGTGGAAGAGGAAGACAGAAGA ATGGGTCAGGGAGATGCAAGGATGG
5098	db mining	NA	AI144317	3666126	oy84f04.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:1672543 3' similar to gb:X64707 BREAST BASIC CONSERVED PR	-1	TCCTTAGGGAAAAAGAGATTTTCAA CCCTTCGTTAGTTTCCGGTAGGGCC
5099	db mining	NA	AI187859	3739068	qe07h05.x1 Soares_testis_NHT cDNA clone IMAGE:1738329 3', mRNA sequence	-1	ACGCAATTGTTTCACATACATACACAT GCAAAATCCAAAAGAAGGTTTTTA
5100	Table 3A	Hs.121210	AI204611	3757217	EST384285 cDNA	-1	CCCAGCCCTCTATGTACCCGTGTCCC AGCCAGCAATAAATGCCATCTTGG

Table 8

5101	db mining	Hs.144814	AI220630	3802833	RST44972 cDNA	-1	AGCCTGGAATTCTAAGCAGCAGTTTC ACAATCTGTAATTGCACGTTTCTG
5102	db mining	Hs.126580	AI222355	3804558	602691805F1 cDNA, 5' end /clone=IMAGE:4824264 /clone_end=5'	-1	TGGTTACTCATGTCTCTCAAAGACGAC TCATGATGCTGGATATGAAGAACT
5103	Table 3A	Hs.36475	AI243620	3839017	EST372075 cDNA	-1	AGGCAAAAGTCATTTCTTCCCTATATT TTGTCATGCTTATCTCCTGTCTC
5104	db mining	NA	AI263168	3871371	qh49e10.x1 Soares_NFL_T_GBC_S1 cDNA clone IMAGE:1848042 3', mRNA sequence	-1	GTATGAAGGCAAGAAAATTCAGGGG AAAACAAGTGGTTATTTCTGGCC
5105	Table 3A	Hs.158501	AI290845	3933618	7q71b07.x1 cDNA, 3' end /clone=IMAGE:3703844 /clone_end=3'	-1	GATACCTCTTCTAAGACTCATCGC GTCTCTTCCAGCCTCTCGCCCCA
5106	db mining	Hs.150175	AI301070	3960416	qo16d04.x1 cDNA, 3' end /clone=IMAGE:1908679 /clone_end=3'	-1	TCTGTATGCTGGTCTCATCAGGAA CCTTTCTCTGCACTGCATTTTCC
5107	db mining	NA	AI356349	4107970	qz26d12.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2028023 3' similar to contains MER7.b2 MER7 repetitive el	-1	AGAGCTGGTTCAGAAAGTTTCGGAT GAGTCTGAATGTTTATGATAGGGCA
5108	db mining	Hs.157560	AI356388	4108009	qz28e07.x1 cDNA, 3' end /clone=IMAGE:2028036 /clone_end=3'	-1	TCCTTAGTCTCCTTCAATTTCCACACA CTGAACATGACATTTTACCCTTT
5109	db mining	NA	AI356470	4108091	qz27b11.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2028093 3', mRNA sequence	-1	TTTTCTGTTTTCTGTTTAAAGAAAATC TGGAACCGCAAGGCCGTCCCTTT
5110	db mining	Hs.157808	AI361701	4113322	qz18e09.x1 cDNA, 3' end /clone=IMAGE:2021898 /clone_end=3'	-1	CCAAAGCCTTTGTGTTTGGTGGCGA GGCCCCCTTTTGAATGGGGTTTTT
5111	db mining	Hs.327396	AI361729	4113350	qz24a08.x1 cDNA, 3' end /clone=IMAGE:2027798 /clone_end=3'	-1	TGCCGCCCCAGGATTCTTTTAAAGAA TAAAAAGAAATGAGTGTGGACATG
5112	db mining	Hs.157811	AI361733	4113354	qz24b02.x1 cDNA, 3' end /clone=IMAGE:2027787 /clone_end=3'	-1	CCTACGATATCCTTTTCAAATAGGGG TGGGTCCAGCCCTTGTGCCCTG
5113	db mining	Hs.270193	AI361773	4113394	qz19c05.x1 cDNA, 3' end /clone=IMAGE:2021960 /clone_end=3'	-1	CTGGGAGAAAGGTACTTTGGGTTAGT GGTAGGGATAGGGATGAACGGGAA
5114	db mining	NA	AI364677	4124366	qz05h09.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2020673 3', mRNA sequence	-1	AGCATAATCCTAATGAGGAACCTTGT CTGAAGTCTGAGGCTGAGTTACTT
5115	db mining	Hs.327411	AI364926	4124615	qz23b07.x1 cDNA, 3' end /clone=IMAGE:2027701 /clone_end=3'	-1	TTTTGGAACCTTAGCCCTGTGCAAA TCAAAGGATGTGAGGGGAAAAAGG
5116	db mining	Hs.157279	AI364931	4124620	qz23c04.x1 cDNA, 3' end /clone=IMAGE:2027718 /clone_end=3'	-1	ATTTCCCTACGGATGGGACCAAGAA ACTGATGAGAACGGCCAAGTGT
5117	db mining	Hs.157280	AI364944	4124633	qz23d11.x1 cDNA, 3' end /clone=IMAGE:2027733 /clone_end=3'	-1	AACACCCGAACCGTCTTCTGTGGCA TTTGTGAGTTGAAAAAGAACCTT
5118	db mining	Hs.283433	AI365377	4125066	qz08a02.x1 cDNA, 3' end /clone=IMAGE:2020874 /clone_end=3'	-1	CCAGTGGCTGGGATGGTGACAGTGA CATCCACAGTAACAGATGAAATGT
5119	db mining	Hs.304043	AI365414	4125103	7e97a03.x1 cDNA, 3' end /clone=IMAGE:3293068 /clone_end=3'	-1	GGATTTGAGAAACAGTTGCAGATATT ATTGATTAGCTAGTTGGCAGTGGG
5120	db mining	Hs.80426	AI365418	4125107	brain and reproductive organ- expressed (TNFRSF1A modulator) (BRE), mRNA /cds=(146,1297)	-1	CTTGTTCCAGGCGCAGCCCCACACA GTAGGCACTGATTAAGTTTGGTGA
5121	db mining	Hs.157310	AI365460	4125149	qz09e06.x1 cDNA, 3' end /clone=IMAGE:2021026 /clone_end=3'	-1	TTTTCCTTCAACTCTTGCGACTTCTT GGTCTGCCTGTGTGTTTTAATA
5122	db mining	Hs.157311	AI365473	4125162	qz09f09.x1 cDNA, 3' end /clone=IMAGE:2021033 /clone_end=3'	-1	TTCTGTTAATAGCAACATTGCCTTTG AGTGCTACTACTAAACCTGAGGC
5123	db mining	NA	AI367021	4136766	qz23h06.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2027771 3' similar to contains MSR1.t1 MSR1 repetitive el	-1	TCTAGGGATCTGCCCGGCTCAAATC CCAGGCCGTAGGCTAAGTTGTTT
5124	db mining	Hs.296281	AI368512	4147265	Interleukin enhancer binding factor 1 (ILF1), mRNA /cds=(197,2164)	-1	CGGACAAGGGCTGGCAGGTAATGCG CTTCAGTTTGTGTTAAATAGAGGC
5125	db mining	Hs.327453	AI378055	4187908	tc79e11.x1 cDNA, 3' end /clone=IMAGE:2072396 /clone_end=3'	-1	AGCCTTAGCCCTTTAAAGCACTTAA AGTTACTACTTCCAAATGTGATT
5126	db mining	NA	AI378091	4187944	tc80a09.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2072440 3', mRNA sequence	-1	ACCTTGTCATTAAACAGCTCACTTTGAT TGAACATCTACTCTGTGGCGGTT
5127	db mining	Hs.158876	AI378095	4187948	tc80b01.x1 cDNA, 3' end /clone=IMAGE:2072425 /clone_end=3'	-1	TGGAACGGCTATTTGCCGGTTTAAAA ACCAAAAACCCGGTTTTCCTAAA
5128	db mining	Hs.283438	AI378109	4187962	7f19b03.x1 cDNA, 3' end /clone=IMAGE:3285085 /clone_end=3'	-1	GTAAGGCAGACGAGAGAGGCGGAGG TCTCACAGTGAACACAGGATCTGG

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5129	db mining	Hs.158956	AI380117	4189970	tf98b07.x1 cDNA, 3' end /clone=IMAGE:2107285 /clone_end=3'	-1	TTGCCTGCCATGCCCTTATAAGTGCC CTTTAATGTCATAGCATGTAAAGG
5130	db mining	Hs.158967	AI380252	4190105	tf94d05.x1 cDNA, 3' end /clone=IMAGE:2106921 /clone_end=3'	-1	GGGTTTGTGTCCCATTTAGAACTCTG ATGAAACGGTGGGCTTTCCTTCTT
5131	db mining	Hs.158968	AI380283	4190136	tf99g02.x1 cDNA, 3' end /clone=IMAGE:2107442 /clone_end=3'	-1	CAGAGCCTCCAGAATTATGTGAACCTT GTCTCAAAACATTCTCTAAATGGC
5132	db mining	Hs.158971	AI380329	4190182	tf94g05.x1 cDNA, 3' end /clone=IMAGE:2106968 /clone_end=3'	-1	GAAAGGACCCGAGGGTTTGTATTTAA AAAGCCTCCCTGGGCCCTCAAAAA
5133	db mining	Hs.309122	AI380449	4190302	tg02f12.x1 cDNA, 3' end /clone=IMAGE:2107631 /clone_end=3'	-1	GCCAACTGCTTAGAAGCCCAACACAA CCCATCTGGTCTCTTGAATAAAGG
5134	db mining	Hs.302447	AI380514	4190367	tg01e02.x1 cDNA, 3' end /clone=IMAGE:2107514 /clone_end=3'	-1	TGTCTAGAACAGACTGAGAGTGACAC GCATATTTGATTGTGAGGACAGTT
5135	db mining	Hs.231261	AI380594	4190447	tf95h06.x1 cDNA, 3' end /clone=IMAGE:2107067 /clone_end=3'	-1	GTTTGGCCCCAAAGTGTATTAGGAGA GCTTTCCTCTAGATCGCCCTGTG
5136	db mining	Hs.158988	AI380719	4190572	tg03h03.x1 cDNA, 3' end /clone=IMAGE:2107733 /clone_end=3'	-1	CCAGGAGGGCCAGAATTTGAAAAATTC CTTGGGGTGTTCCTTTTCCAAAA
5137	db mining	Hs.159000	AI381037	4190890	tg20h01.x1 cDNA, 3' end /clone=IMAGE:2109361 /clone_end=3'	-1	CAGTTTGAGCAAAAGCCTTTGAAATC CAAGACTTTTCCCTTGGGGTGCT
5138	db mining	Hs.159025	AI381601	4194382	td05g03.x1 cDNA, 3' end /clone=IMAGE:2074804 /clone_end=3'	-1	CCAGTTGGTTTTTGGACTCCAAGGCC CAGGACCCTTCCAATCCTGCTTG
5139	db mining	NA	AI382670	4195451	qz05f05.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2020641 3', mRNA sequence	-1	AGGCCTTTTTCAAAGAAAAACCCCTT TGGGGAAAAAGGGAAAGGGCAAAA
5140	db mining	Hs.192078	AI383475	4196256	te30h04.x1 cDNA, 3' end /clone=IMAGE:2087479 /clone_end=3'	-1	TTTTGCTTGCTGTCGGGAGAATAAAG CAGGGAACCTTTATGTAGTGAAAA
5141	db mining	Hs.327467	AI383510	4196291	td03c10.x1 cDNA, 3' end /clone=IMAGE:2074578 /clone_end=3'	-1	GGGTTTGGCCCGATTATATTAGGTTG GGTGGGGGAAAAATTTATGGGGG
5142	db mining	Hs.105125	AI383774	4196555	602639120F1 cDNA, 5' end /clone=IMAGE:4762804 /clone_end=5'	-1	GTGAAGTGGATCTTGAGGCCGTGCT GGAAACCGGAAGGTACACTGCTTGG
5143	db mining	NA	AI383803	4196584	tc98f01.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2074201 3' similar to gb:J03626 URIDINE 5'- MONOPHOSPHATE	-1	CAAACTTGAGATAAGGTTAAACTG TGCCAGAGGAAACTGGTAGTCT
5144	db mining	NA	AI384024	4196805	td05b02.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2074731 3' similar to contains Alu repetitive element; con	-1	TGCAGCCAGATTGTTCCAAGGTTGCC AATTACCTAGTGGGTAATTTCCC
5145	Table 3A	Hs.107622	AI391443	4217447	tf96e06.x1 cDNA, 3' end /clone=IMAGE:2107138 /clone_end=3'	-1	AGTGCTTATCATGAAATGTGCTTCAC TGGTTCAGCTCTGTTGTTTCTTAA
5146	db mining	Hs.160956	AI391451	4217455	tf96f03.x1 cDNA, 3' end /clone=IMAGE:2107133 /clone_end=3'	-1	GTTATTTGGGAGACAAATGGACGGG CAGGAAGATTGATGCTCCGCTGTTT
5147	Table 3A	Hs.160959	AI391500	4217504	602086202F1 cDNA, 5' end /clone=IMAGE:4250424 /clone_end=5'	-1	AGCTGAAGGGCTTCAACTTTGCTTGG ATTTTAAATATTTTCTTGCATA
5148	Table 3A	NA	AI392705	4222252	tg23b03.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2109581 3', mRNA sequence	-1	TGCAGGCTCATTGTGCTCCTTCTCT GGGTTTCAATTGGATTTCAGTCTT
5149	db mining	Hs.160978	AI392745	4222292	tg08b05.x1 cDNA, 3' end /clone=IMAGE:2108145 /clone_end=3'	-1	ATCTCTAATGAAGCCTAGGATCAGAT TTGTGGCATACCAACAGCACATGT
5150	db mining	Hs.160981	AI392793	4222340	tg04g01.x1 cDNA, 3' end /clone=IMAGE:2107824 /clone_end=3'	-1	CCACAAGGGTTAGTTTGGGCCTTAAA ACTGCCAAGGAGTTTCCAAGGATT
5151	db mining	Hs.160982	AI392799	4222346	tg04g09.x1 cDNA, 3' end /clone=IMAGE:2107840 /clone_end=3'	-1	CGCTTTATTTCCACGAAACCTAGGAC AGTGGCCATCAAACCGAGCGCTTT
5152	Table 3A	Hs.189031	AI392805	4222352	tg04h03.x1 cDNA, 3' end /clone=IMAGE:2107829 /clone_end=3'	-1	CCTGTTGTGGCTGGCTGCATAATAAT TTCCAGGAGGCTTTTCGAAATGTT
5153	Table 3A	Hs.221014	AI392814	4222361	MR2-HT1182-180101-007-d08 cDNA	-1	CGGTCCAGTCCGGCTGCTTCCATTCCC TGAAGAAGAGGCCCTAAAGTTAAA
5154	Table 3A	Hs.168287	AI392830	4222377	tg10b09.x1 cDNA, 3' end /clone=IMAGE:2108345 /clone_end=3'	-1	TTAGCCTCAAAGGGTGGGGAAAAAG CCCATACCTCTGGGCCAGTCTAG
5155	db mining	Hs.276774	AI392845	4222392	tg10d01.x1 cDNA, 3' end /clone=IMAGE:2108353 /clone_end=3'	-1	CCTTAGAATTAAGTTGAATTTTCTGCG CTTGCTAAGCAAGACTTCTGCA

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5156	Table 3A	Hs.159655	AI392893	4222440	tg05d07.x1 cDNA, 3' end /clone=IMAGE:2107865 /clone_end=3'	-1	CAGCCACGGGCCCTCGCGTCTTCGC GGCACGTTAATTAATGCGGAAAAAC
5157	db mining	Hs.327469	AI392990	4222537	tg22f02.x1 cDNA, 3' end /clone=IMAGE:2109531 /clone_end=3'	-1	TTTTACCCAAATTTTAAAGGCCGGAT AAAAGGGTTTTTTGTTTGAAGGGA
5158	db mining	Hs.230848	AI392999	4222546	tg22f11.x1 cDNA, 3' end /clone=IMAGE:2109549 /clone_end=3'	-1	GGAGGTTAGGGCCTGAAGCTCAAAG CTCCCCCTTTTAAATAGTTTTCC
5159	db mining	NA	AI393006	4222553	tg22g06.x1 cDNA, 3' end /clone=IMAGE:2109562 /clone_end=3'	-1	CCCCTTTGGGCCCCCGGGTTTTCC CTTTTGGTTTCGGGTTGTTTTTG
5160	db mining	Hs.228891	AI393017	4222564	tg22h05.x1 cDNA, 3' end /clone=IMAGE:2109561 /clone_end=3'	-1	ACGTGGGCTTTTGGACCCCTTATAAG ATGGTCATAAGACCCCAAACTGA
5161	db mining	Hs.159706	AI393038	4222585	tg25b07.x1 cDNA, 3' end /clone=IMAGE:2109781 /clone_end=3'	-1	ATGGCTATAAGGCCAAAAAGTTTGG CGGCATGGGGGATTTTTTGCTCTT
5162	Table 3A	Hs.160273	AI393041	4222588	tg25b10.x1 cDNA, 3' end /clone=IMAGE:2109787 /clone_end=3'	-1	AGAGACGGCCACCTGAGACCAATTA GAATATCCACACCACTGGAAGAGAG
5163	Table 3A	Hs.126265	AI393205	4222752	Homo sapiens, Similar to RIKEN cDNA 0610006H10 gene, clone MGC:9740 IMAGE:3853707, mRNA, complete cds /cds=(171,1130)	-1	GCCTCCCCAACCCCTGGCCTCAATTT CCCTTCTATAAAATGGAAGATGT
5164	db mining	Hs.159718	AI393217	4222764	tg14c09.x1 cDNA, 3' end /clone=IMAGE:2108752 /clone_end=3'	-1	ACACCCAGCCAAAGAAAGCATACCT GAATCCAAGAGAGATTTACACTG
5165	db mining	Hs.240635	AI393223	4222770	tg14d03.x1 cDNA, 3' end /clone=IMAGE:2108741 /clone_end=3'	-1	CTCAGAGAAGAACAGTGTAGAAACCC GCGCTGTGTGAAGCGAGGTTGGGC
5166	Table 3A	Hs.160401	AI393906	4223453	tg05f08.x1 cDNA, 3' end /clone=IMAGE:2107911 /clone_end=3'	-1	ACTTTCATTGTTGAGCTGGGGAGTT GGATTTTGCCATTGTTTTATG
5167	Table 3A	Hs.340891	AI393908	4223455	wi30d11.x1 cDNA, 3' end /clone=IMAGE:2391765 /clone_end=3'	-1	TCCCAGTGATGATTTCGCTCCCTTTGT TAATTACTCAGTGTTCTTGTTTT
5168	Table 3A	Hs.274851	AI393960	4223507	tg11d04.x1 cDNA, 3' end /clone=IMAGE:2108455 /clone_end=3'	-1	TGCGTGCTGCTAATACTAGGTACCC ATAATAGGTCTTTACACTCAGTTT
5169	Table 3A	Hs.160405	AI393962	4223509	tg11d08.x1 cDNA, 3' end /clone=IMAGE:2108463 /clone_end=3'	-1	CCTGACCTTGAGGCATTTTTGATTGT GCAGTTACCTAGGGTATGCTTGTTG
5170	Table 3A	Hs.76239	AI393970	4223517	hypothetical protein FLJ20608 (FLJ20608), mRNA /cds=(81,680)	-1	GAGGACTGGGACCGTGATTCCACTA ACGGAAACCGTCGCTTTTCGGGCC
5171	Table 3A	Hs.160408	AI393992	4223539	tg08c05.x1 cDNA, 3' end /clone=IMAGE:2107976 /clone_end=3'	-1	GGGGAAGTCAAGGAGACACACACGC TCTTTCAACAGAATCAGCTCTTAAT
5172	Table 3A	Hs.244666	AI394001	4223548	tg08d04.x1 cDNA, 3' end /clone=IMAGE:2107975 /clone_end=3'	-1	AACTAGATCCTGCCTTAGAAAACCTT TTGCCATGAATGACAAATTCATGT
5173	db mining	Hs.160410	AI394009	4223558	tg11e02.x1 cDNA, 3' end /clone=IMAGE:2108474 /clone_end=3'	-1	TGTCAGCATCTGGAATAGTGTAAAGTA TGCAGTGGAGGAAATCTCATCCTT
5174	db mining	Hs.160423	AI394303	4223850	tg09g11.x1 cDNA, 3' end /clone=IMAGE:2108324 /clone_end=3'	-1	TTAACAGGACCTCTGGGCCACCAAG GAGAAAGGGCTGGGGAGCCAAAGAG
5175	Table 3A	Hs.159878	AI394671	4224218	tg24a07.x1 cDNA, 3' end /clone=IMAGE:2109884 /clone_end=3'	-1	GTTCTGTGATAGTTGTTTCCCTCAT CTCCCTCACCTCTGCCTGGGTTG
5176	db mining	Hs.228337	AI394690	4224237	tg24c06.x1 cDNA, 3' end /clone=IMAGE:2109706 /clone_end=3'	-1	GGCCCCCTCTTTTGTGGAGAGTTTT TTATAAATCGAGCCCGATTTTCAT
5177	db mining	Hs.159882	AI394730	4224277	tg24g04.x1 cDNA, 3' end /clone=IMAGE:2109750 /clone_end=3'	-1	GGGCTTTTTCTTCCCTAATCAGGGT GACCTGGGCTTTTGGGCAGGATC
5178	db mining	Hs.159883	AI394733	4224280	tg24g09.x1 cDNA, 3' end /clone=IMAGE:2109760 /clone_end=3'	-1	AAGGAGGGGAGTGAATGATATTGCT GTCATTTCTCAGCAAAATCATAGTGA
5179	db mining	Hs.177148	AI399977	4243084	tg92e06.x1 cDNA, 3' end /clone=IMAGE:2116258 /clone_end=3'	-1	TAAAATTCTCTGTGGGAAAAAGCCTG CCAATAAAATGGGGGTTTTTGGGC
5180	Table 3A	Hs.225567	AI400714	4243801	tg93g12.x1 cDNA, 3' end /clone=IMAGE:2116390 /clone_end=3'	-1	ACAGACTAAGCTGGTTTGGTGGATTCT ATCTTTCATTATGAAGAAACGAG
5181	db mining	NA	AI400725	4243812	tg93h12.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2116391 3' similar to contains TAR1.t1 MER22 repetitive e	-1	CCCAAAGCCTGGGGGGTTTGGCCCA AACCTTCCCCCTGGTTTTTATAAAA
5182	db mining	Hs.224409	AI400796	4243883	IL3-ET0114-011100-330-F11 cDNA	-1	ACTGCTTCAAGAAAGTGGGACCAGT GGCATTGTAGCCACCATAATCACT

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5183	db mining	Hs.174778	AI400826	4243913	th10g11.x1 cDNA, 3' end /clone=IMAGE:2117924 /clone_end=3'	-1	GCCCTTGGCAAATGATTGAGACCCC TTTTGAAACCATTGTAGGATGAAT
5184	db mining	Hs.270294	AI401001	4244088	tm29d11.x1 cDNA, 3' end /clone=IMAGE:2158005 /clone_end=3'	-1	CACACAGCAGTGGCTTGGGGATGAG GAAGGAAGGGAGAATCTCAACGGAG
5185	db mining	Hs.224178	AI401179	4244266	tg28g11.x1 cDNA, 3' end /clone=IMAGE:2109956 /clone_end=3'	-1	TTTTTCTGTGAGTTAGGGGCATGGAG GCGGCAGTGTGGGAGCTGGAGCC
5186	db mining	Hs.175336	AI401184	4244271	7o18b08.x1 cDNA, 3' end /clone=IMAGE:3574239 /clone_end=3'	-1	AGTTGGCTCTAGTTTAAAGATATAAAT ACGTACCTCAGTTAAACCCCATGT
5187	db mining	Hs.327913	AI401303	4244390	tg92d01.x1 cDNA, 3' end /clone=IMAGE:2116225 /clone_end=3'	-1	CTTCAGGCCCAAGTTCAACGGGTAA AGAGGTCCGCTCCCAATTATTCT
5188	db mining	Hs.159693	AI417000	4260504	th02f02.x1 cDNA, 3' end /clone=IMAGE:2117115 /clone_end=3'	-1	GTCCAGTAGCCCCATTTCAGGGCTT GCTAGTTACATGGGTTTGTGTTTA
5189	Table 3A	Hs.79968	AI419082	4265013	splicing factor 30, survival of motor neuron-related (SPF30), mRNA /cds=(0,716)	-1	GGATGTGTGATGTTTATATGGGAGAA CAAAAAGCTGATGATAGCCCTGT
5190	Table 3A	Hs.131067	AI421808	4267737	yt85b05.s1 cDNA, 3' end /clone=IMAGE:231057 /clone_end=3'	-1	CAATTTCCACCTCTAAGGGGGTCCG GAAAGGCACGCTGAGGGTGAATATG
5191	Table 3A	Hs.159103	AI431873	4308229	tc97d09.x1 cDNA, 3' end /clone=IMAGE:2074097 /clone_end=3'	-1	GCTTTCAAATGAATTCAGGGCTTTC TTTGAAAGCAGTCTGTAAAGTTGT
5192	Table 3A	Hs.254006	AI432340	4309500	tg54e06.x1 cDNA, 3' end /clone=IMAGE:2112610 /clone_end=3'	-1	TCCTTTCTGGATACCAGGAATCACTT AAAAATCTGTGTATAATGCCCCCA
5193	db mining	Hs.283442	AI435240	4301796	ti02a08.x1 cDNA, 3' end /clone=IMAGE:2129270 /clone_end=3'	-1	AAACAGGGAACGACAGGAAAAAGAT GACCGTGATACACTCTGCTAAAGC
5194	db mining	Hs.327548	AI435268	4301992	ti02d10.x1 cDNA, 3' end /clone=IMAGE:2129299 /clone_end=3'	-1	CCCCCCCCGGCTTCCCCCTTTTTTCCC CGCCCGTTTTTTGGGGGAATGGG
5195	Table 3A	NA	AI436418	4281540	ti01h02.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2129235 3' similar to SV:SYB2_HUMAN P19065 SYNAPTOSBREVIN	-1	GGCCATGCCGGGCCAGCCCCACCTG AAGCTCAGTGAAGAGCTGATAAAAA
5196	Table 3A	Hs.165703	AI436561	4282683	ti03b03.x1 cDNA, 3' end /clone=IMAGE:2129357 /clone_end=3'	-1	CGCAGGACTCTAAAGATCCAAGCTCA CAAAACACTCCAAATCCACCTCGA
5197	Table 3A	Hs.111377	AI436587	4282890	AL582032 cDNA /clone=CS0DL003YA06-(3-prime)	-1	AACTTTACTTCTGTCTCTGGCAGGAC ATGGAGAGAGGGAGGATTCCAAA
5198	db mining	Hs.283443	AI436589	4282908	7f34g01.x1 cDNA, 3' end /clone=IMAGE:3296592 /clone_end=3'	-1	GGGTGATAATTGAGGGTGCCCGCTGG GAAGGTCCGAGAATGGGTTTTCATG
5199	Table 3A	Hs.257066	AI438957	4300957	UI-H-BI3-aka-h-10-0-ULs1 cDNA, 3' end /clone=IMAGE:2733930 /clone_end=3'	-1	GTTCAATTGCTGTTTCAAGTGTGCTG CTGTGGTGTATATAATGCTCCAG
5200	db mining	Hs.165701	AI438979	4301111	tc89d11.x1 cDNA, 3' end /clone=IMAGE:2073333 /clone_end=3'	-1	TATTCCACCAGTGAGCTACACTCCCG GCCCTTTAGTGTTGTTGTAAC
5201	db mining	Hs.165702	AI438980	4301118	tc89d12.x1 cDNA, 3' end /clone=IMAGE:2073335 /clone_end=3'	-1	CCGTGTTGTGGCAAAATGGTCCCTG GAGTTTTTGACCTGTGTTTAAAGA
5202	db mining	Hs.327566	AI439020	4301397	tc89e05.x1 cDNA, 3' end /clone=IMAGE:2073344 /clone_end=3'	-1	TTTTTTGGGGCCGAAAACCCCAATG AGGGGATTAAGCTGTTTCCCC
5203	db mining	Hs.327567	AI439044	4301565	tc89h03.x1 cDNA, 3' end /clone=IMAGE:2073365 /clone_end=3'	-1	GGGGTTGTCTTTTCCACCTGATG GGGAATTTATGGATGGGTTTCTT
5204	db mining	Hs.165704	AI439060	4301677	tc84f07.x1 cDNA, 3' end /clone=IMAGE:2072869 /clone_end=3'	-1	AAATGAGTGACCAAAACACTTCTGTA CCACTTCTGTGAGCTGAGGTCCAG
5205	Table 3A	Hs.165681	AI439580	4305318	QV3-DT0043-211299-044-d03 cDNA	-1	AGGAACCTAAAGAACTGCCAAGTGT AGATAAGCATTGAGTATGTTACCC
5206	db mining	NA	AI439601	4305465	tc85d10.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2072947 3', mRNA sequence	-1	GGTTGTCCAGTTTTCGGTTTTTAACG CCCCCATAGGGGATTTGGCCCCC
5207	Table 3A	Hs.192463	AI439633	4305688	7q86c05.x1 cDNA, 3' end /clone=IMAGE:3705201 /clone_end=3'	-1	GTTTTGGAATGAGGAATGATTTTCTA AGCCTGACATCAGATGTCTGACA
5208	db mining	Hs.165732	AI439643	4305758	tc91e08.x1 cDNA, 3' end /clone=IMAGE:2073538 /clone_end=3'	-1	GAAATTCCTCCCTTTTCCCTCTCCTT CCCTTCTGCTGACCTGTTCTCAG
5209	Table 3A	Hs.255490	AI439645	4305772	tc91e08.x1 cDNA, 3' end /clone=IMAGE:2073542 /clone_end=3'	-1	CACAGAGGGAGTGTGACGGGCCAGA TTTCATCTGGGGCCACGCTGAAAT

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5210	Table 3A	Hs.9614	AI440234	4281195	Nucleophosmin (probe bad, mutations, wrong clone used) (nucleolar phosphoprotein B23, numatrin)	-1	TGATAGGACATAGTAGTACGGGTGGT CAGACATGAAATGGTGGGGAGCC
5211	Table 3A	Hs.309279	AI440337	4282020	tc88b03.x1 cDNA, 3' end /clone=IMAGE:2073197 /clone_end=3'	-1	CAATACCTACCCCCAGTGGCAGCCG CCTGCTCCTCATGACCCAAGTAAGT
5212	Table 3A	Hs.89104	AI440491	4300600	602580917F1 cDNA, 5' end /clone=IMAGE:4717348 /clone_end=5'	-1	TGTTTTAACTACTCTTCTCAACATTTT GTCCAGGTATTCCCTGTAAACCA
5213	Table 3A	Hs.59844	AI440512	4300747	tc83f09.x1 cDNA, 3' end /clone=IMAGE:2072777 /clone_end=3'	-1	TAAGTGTGAGGTTTGTGGGAAGGTT ATTCTTGCTTGTGATTTTGTCC
5214	Table 3A	Hs.327610	AI452611	4286566	ij27g07.x1 cDNA, 3' end /clone=IMAGE:2142780 /clone_end=3'	-1	CAAACCCCTATCCCCATTCTCCTCC TATCCCTCAACCCCGACATCATTA
5215	Table 3A	Hs.121973	AI458739	4311318	602428025F1 cDNA, 5' end /clone=IMAGE:4547239 /clone_end=5'	-1	CCTGCAACAGCTAAGGCCAAGCCAA ACTTACCGTGGACTCAAACACTTTG
5216	Table 3A	Hs.86437	AI469584	4331674	602411368F1 cDNA, 5' end /clone=IMAGE:4540096 /clone_end=5'	-1	TGAATTTGGAGTCCCTGGCACATAAA TCTACCTTCAAATCAGAGGTCTT
5217	Table 3A	Hs.149095	AI471866	4333956	ti87d04.x1 cDNA, 3' end /clone=IMAGE:2137063 /clone_end=3'	-1	TCCCACCCCTTTTCTACTGAATTTGT GGGGATCCTATAATAAAAGTGAAT
5218	Table 3A	Hs.303662	AI472078	4334168	ij85h03.x1 cDNA, 3' end /clone=IMAGE:2148341 /clone_end=3'	-1	ACTACCAGAGCCCTAGGACTTCTGAG CACATTTAGAAATACCAGAGGCA
5219	db mining	Hs.170772	AI472326	4334416	ij87c09.x1 cDNA, 3' end /clone=IMAGE:2148496 /clone_end=3'	-1	CATGTCAGAGTTCTTAACAGAAAGCA AAGGTTTCCAACGACACTTGCATT
5220	Table 3A	Hs.78746	AI474074	4327119	cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds /cds=(0,2141)	-1	ATGAAATCTCATGGGGCCAAACTGCA CATCAGCTACTGCTACCTCTTGC
5221	db mining	NA	AI475527	4328572	tc85g07.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2072988 3', mRNA sequence	-1	CCCTGTGGCAACTTGTGGGTACGGTT TAACTGGACCAGCTGAGCTTCTG
5222	db mining	Hs.292501	AI475611	4328658	7f03g08.x1 cDNA, 3' end /clone=IMAGE:3293630 /clone_end=3'	-1	AGAAATAGTGTCTCGGAAGCTCAG TTTGAGCTGACTGCACAGTTGC
5223	Table 3A	Hs.300759	AI475653	4328698	ribosomal protein L36 (RPL36), mRNA /cds=(145,462)	-1	GTTGCTGGCTGCCCTCCCTGCACCT CTCCCTGAAATAAAGAACAGCTTGG
5224	db mining	Hs.300759	AI475653	4328698	ribosomal protein L36 (RPL36), mRNA /cds=(145,462)	-1	GTTGCTGGCTGCCCTCCCTGCACCT CTCCCTGAAATAAAGAACAGCTTGG
5225	Table 3A	NA	AI475666	4328711	tc93c08.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2073710 3', mRNA sequence	-1	ACGTGTCAGACACAATCCTGAGCCTT CTACAAGTGTTCCCTCTTACTCCT
5226	db mining	NA	AI475678	4328723	tc93d10.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2073715 3' similar to gb:M92287 G1/S-SPECIFIC CYCLIN D3 (	-1	AAGCCCTGTTTACCCAGGTTTTCCTT AAGGCAGAAAGGTTTAGGGTGGTG
5227	Table 3A	Hs.105676	AI475680	4328725	tc93d12.x1 cDNA, 3' end /clone=IMAGE:2073719 /clone_end=3'	-1	GAGAAAGCTCCAGTCTGTCTTTCCC AACATCCCTCAGTTTCAATAAGC
5228	db mining	Hs.170338	AI475682	4328727	tc93e03.x1 cDNA, 3' end /clone=IMAGE:2073724 /clone_end=3'	-1	TTCAGGTGAGTGTGCCTGGAGGTGG AGAACTATGGTTTGTATACTTGGC
5229	Table 3A	Hs.236030	AI475694	4328739	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2 (SMARCC2), mRNA /cds=(22,3663)	-1	AAGGTGCCATGTATTGAAAGTGTGCG TCAAAGAACATAAATATCAGTGGA
5230	db mining	NA	AI475735	4328780	tc88g02.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2073074 3', mRNA sequence	-1	TGTAATTATTTCTGTATGTTCAAGAA GGTAAAGGAAGGACAGCTATGGGA
5231	db mining	Hs.327640	AI475806	4328851	tc94g03.x1 cDNA, 3' end /clone=IMAGE:2073844 /clone_end=3'	-1	ATTTATTTGGGGTTGGTCCCCCTTT GGGCCCCCGGGTTTCCCTTTTTT
5232	db mining	Hs.170588	AI475815	4328860	tc94h02.x1 cDNA, 3' end /clone=IMAGE:2073843 /clone_end=3'	-1	AACCATAAAGGCCCGTTTGGTTAGT TTCCCTGTTTCTGGTTTGGGCT
5233	Table 3A	Hs.105052	AI475827	4328872	adaptor protein with pleckstrin homology and src homology 2 domains (APS), mRNA /cds=(127,2025)	-1	TTATGGGGTAACTCACTTTGGGCGGC ACGAAGAACTCCAGCGGAAGCGT
5234	db mining	Hs.258864	AI475833	4328878	tc87b01.x1 cDNA, 3' end /clone=IMAGE:2073097 /clone_end=3'	-1	TCTCTCCCATCCCAAGTCATCCAGC CCTTTTCTACCCCTCAATAAACC
5235	Table 3A	Hs.170587	AI475884	4328929	tc95c12.x1 cDNA, 3' end /clone=IMAGE:2073910 /clone_end=3'	-1	CCCCCTGATGGACTTCAAATATGTCT CATCAACTACAGTATTAATGCCA

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5236	Table 3A	Hs.170588	AI475905	4328950	tc95f06.x1 cDNA, 3' end /clone=IMAGE:2073923 /clone_end=3'	-1	CGAGAATGCCTAGGGAACAGCTA CGCTTACAAGCCAGCTACGCAGCCC
5237	db mining	Hs.170589	AI475909	4328954	tc95f10.x1 cDNA, 3' end /clone=IMAGE:2073931 /clone_end=3'	-1	GGAAACATTGGCCTGGGGGTGTCCC CCAAAAGGGGGCCGTTTTTAAAGGG
5238	db mining	NA	AI475926	4328971	tc95h10.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2073955 3' similar to gb:M59849 FIBRILLARIN (HUMAN);, mRN	-1	TGGGTTGACATTGTTCCGACGGGGT GTTTCTTATATTAAGAGACTCACT
5239	Table 3A	NA	AI478556	4371782	tm53e03.x1 NCI_CGAP_Kid11 cDNA clone IMAGE:2161852 3', mRNA sequence	-1	CTTTCACAAAAAATCGATAACCTTG GGGGATTGTTTATGGCTTGACA
5240	db mining	NA	AI479016	4372184	tm29h05.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2158041 3' similar to gb:X58141_ma1 ERYTHROCYTE ADDUCIN	-1	CCGCCTTGGGGAGACAGGTCTTGAT TGCTTTTTTCCAGTGAACATTGTT
5241	Table 3A	Hs.170784	AI479022	4372190	tm30a05.x1 cDNA, 3' end /clone=IMAGE:2158054 /clone_end=3'	-1	TCCCAGACTTTCAGGAAAGTAACTGT AGCACTGTTAATATCACAAACA
5242	db mining	Hs.187200	AI479029	4372197	tm30b06.x1 cDNA, 3' end /clone=IMAGE:2158057 /clone_end=3'	-1	TTTTAGCTGGGAGTGGGGGGACTAT GGGGAATAACTTTCCTTCATTTAAT
5243	Table 3A	Hs.337139	AI479075	4372243	tm30h01.x1 cDNA, 3' end /clone=IMAGE:2158129 /clone_end=3'	-1	ACATGTGTGTGTTTTCCATGAGGCAC TGCTTTTTATGCATTTCCCTCCCC
5244	db mining	NA	AI479094	4372262	tm31b02.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2158155 3' similar to contains TAR1.11 MER22 repetitive e	-1	CTGTATTTGAAGTCAGCAGGGCTCAG CAGGATTTGACCAGAGTTACCTC
5245	db mining	Hs.185498	AI479659	4372827	tm32h04.x1 cDNA, 3' end /clone=IMAGE:2158327 /clone_end=3'	-1	TGGTTTATAGATGCACCTTCCTTCATA GGCAGTCCCTGGCACTTCTTGTC
5246	Table 3A	Hs.170909	AI492034	4393037	tg06f12.x1 cDNA, 3' end /clone=IMAGE:2108015 /clone_end=3'	-1	AGGAGCTGGTATTATTGGAGGGTATT ATAGATCCAGTGTATTGTGACTGT
5247	db mining	NA	AI492041	4393044	tg06g08.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2108030 3' similar to gb:L23320 ACTIVATOR 1 140 KD SUBUN1	-1	GCAGTAGTGCTAAGGCGTCTTTTGTA GGCTTTAGATTTTGTCTGTATGGC
5248	Table 3A	Hs.119923	AI492066	4393069	tg12b03.x1 cDNA, 3' end /clone=IMAGE:2108525 /clone_end=3'	-1	GCTTGTGAGAACAGAGATATTTCCA CCCTGCCTAGTAGATGTTTTCAG
5249	db mining	Hs.327698	AI492127	4393130	tg07d04.x1 cDNA, 3' end /clone=IMAGE:2108071 /clone_end=3'	-1	CCCCCGTTTTAGGTTAGGGCCTTGG GCAGGGGTTTGCCCCCTGTATCCCC
5250	db mining	Hs.170912	AI492164	4393167	tg12h01.x1 cDNA, 3' end /clone=IMAGE:2108593 /clone_end=3'	-1	TTGGTTTTATTATCCAAAAGTGAAGCC TTCTCATAGGCTTTACACCCGGA
5251	Table 3A	Hs.341634	AI492181	4393184	wt85e01.x1 cDNA, 3' end /clone=IMAGE:2514264 /clone_end=3'	-1	GGCAGGCTCTAGCCACCCTGTGCGGT TCCCAATAAGCCATTATTGAATAA
5252	Table 3A	Hs.276903	AI492640	4393643	qz18a06.x1 cDNA, 3' end /clone=IMAGE:2021842 /clone_end=3'	-1	TTTTTGACCAGCTACATTTCTGATCT GTGGGATCTGCATTTGTGAATTC
5253	db mining	Hs.170933	AI492648	4393651	qz18b06.x1 cDNA, 3' end /clone=IMAGE:2021843 /clone_end=3'	-1	TCTGGACAATGTTGATGCTAACCTTG ATGATATCCATCCCTATTACTGGG
5254	db mining	NA	AI492653	4393656	qz18c02.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2021858 3' similar to contains Alu repetitive element, m	-1	AGGACATGAAGGCTCTGAAAAAGAAAC AGGAAAATACAGACTCCCGCCTT
5255	Table 3A	Hs.170331	AI492865	4393868	th78a05.x1 cDNA, 3' end /clone=IMAGE:2124752 /clone_end=3'	-1	AAGTCAAGGAACCTCTCGGGTCTCT GAGATCCAGGCCAACAGTAAACAG
5256	db mining	Hs.327702	AI493426	4394429	tg91a07.x1 cDNA, 3' end /clone=IMAGE:2116116 /clone_end=3'	-1	AGGGGGCTTTAAAAATTTAAATTTGC CTTTTGTTTTAAAAAGGCCCATGT
5257	Table 3A	Hs.276907	AI493728	4394729	qz12f08.x1 cDNA, 3' end /clone=IMAGE:2021319 /clone_end=3'	-1	CCCCCTCCCAACCAAGAAAAAGAAA TGGTAACCTGGACAAAAACATT
5258	db mining	Hs.342652	AI493740	4394743	yi60c05.r1 cDNA, 5' end /clone=IMAGE:143624 /clone_end=5'	-1	CCCTTGCTCTTATTGTTCTTGCTGG TGTGGTATGTTCCCGGCTGAAAAA
5259	db mining	NA	AI494343	4395346	qz14a10.x1 cDNA, 3' end /clone=IMAGE:2021466 /clone_end=3'	-1	TTCCCTTTTTTCCCTTTTTTAAAA AGCCCTTTTTTAAATGGGGCGC
5260	db mining	Hs.283456	AI494542	4395545	7f12b08.x1 cDNA, 3' end /clone=IMAGE:3294423 /clone_end=3'	-1	AAGGACAGCTTGCTTGCTGATGAACA CTTCACAGCTTTTGAGCTAAGT
5261	Table 3A	Hs.171009	AI494612	4395615	RST42450 cDNA	-1	ACATGAGAATTAACCATGTCCAGTAG TTAAGTTCATTTCTACAGTGTGC
5262	Table 3A	Hs.342008	AI498316	4390298	UI-H-B11-aeq-b-02-0-UI.s1 cDNA, 3' end /clone=IMAGE:2720186 /clone_end=3'	-1	GCCAGAATGGTACAGAGTGGAGGGT GTTCTGCTAATGACTTCAGAGAAGT



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5263	Table 3A	Hs.169541	AI523598	4437733	th08g11.x1 cDNA, 3' end /clone=IMAGE:2117732 /clone_end=3'	-1	GCACAACCTCTGGGAATCTAGTGGCT GTATGTTAAAGCATCGGTAAAGA
5264	db mining	Hs.171098	AI523617	4437752	tg95b03.x1 cDNA, 3' end /clone=IMAGE:2116493 /clone_end=3'	-1	AAAAAGGCCCTTGTGTTGGTGT TGGCCCGTTGGGGAAAAATGCCTGT
5265	db mining	Hs.264120	AI523641	4437776	601436078F1 cDNA, 5' end /clone=IMAGE:3921187 /clone_end=5'	-1	TTTAGGAGCTGACCATACATGATGAG TGATACAGCCTGTACTTTGCTCAT
5266	Table 3A	Hs.308484	AI523766	4437901	tg94f07.x1 cDNA, 3' end /clone=IMAGE:2116453 /clone_end=3'	-1	GGTTTCCACGAAACGGGAGGCTGCT GAAGAGTCAAAGCCTGGGCGAGCTC
5267	db mining	NA	AI523780	4437915	tg94h09.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2116481 3' similar to gb:M15059 LOW AFFINITY IMMUNOGLOBUL	-1	CAGGTCATGAGTATTCGAAGCTCAGG TGGTGAGTCCTCCTCACCGGGATG
5268	db mining	Hs.171108	AI523790	4437925	tg96b01.x1 cDNA, 3' end /clone=IMAGE:2116585 /clone_end=3'	-1	AAAGGGAAACTGGCTCTGGCACCAC CTACTGGAGACCAAACTTCACCAA
5269	Table 3A	Hs.194054	AI523854	4437989	HA0669 cDNA	-1	GACAAAATAGTTACCTATGCTTTCCTT CTGGCACCCCGAATGTACGCAGG
5270	Table 3A	Hs.228928	AI523873	4438008	tg97c12.x1 cDNA, 3' end /clone=IMAGE:2116726 /clone_end=3'	-1	ATCTGACCTGAGGAGATCACAATG CCTTCTGTATTGGGTGGTAATGAT
5271	db mining	Hs.207993	AI523884	4438019	tg97e12.x1 cDNA, 3' end /clone=IMAGE:2116750 /clone_end=3'	-1	TCCGTTGTAACACATCTAATGTGAAC GCATTATAACATGGACCTGTACT
5272	db mining	NA	AI523904	4438039	tg97h03.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2116757 3' similar to SW:MKK2_HUMAN P49137 MAP KINASE-ACT	-1	ACATAACTATTCCGTTGATGAATAGC ATCAGGACTTAATGGTGACCTTGT
5273	db mining	Hs.337129	AI523973	4438108	tg98h03.x1 cDNA, 3' end /clone=IMAGE:2116853 /clone_end=3'	-1	AACGGGTTTGGGTTTGGGGGGTTT GTTCTTTTATTGAATCCATTAAAGT
5274	db mining	Hs.340482	AI523988	4438123	tg99b05.x1 cDNA, 3' end /clone=IMAGE:2116881 /clone_end=3'	-1	TATAGGAGATGGGATACTCATTCCCG CTGCTATTGATAAGGTCGGAGGCG
5275	db mining	Hs.283457	AI523989	4438124	7f27b07.x1 cDNA, 3' end /clone=IMAGE:3295861 /clone_end=3'	-1	CAGAACGTCCTCAAGGACACACTCCT CCCTCGGGCCTCACTCTGGAGCAC
5276	db mining	Hs.228405	AI524004	4438139	tg99d01.x1 cDNA, 3' end /clone=IMAGE:2116897 /clone_end=3'	-1	CTGGACATGTTGTTCCATGTTTCAGT CCCTTCCCGGTTTTTGGGTGTTTT
5277	db mining	Hs.283458	AI524006	4438141	tg99d05.x1 cDNA, 3' end /clone=IMAGE:2116905 /clone_end=3'	-1	AAAGTAGCCATCCTGAGTCTCCAGGG TGATGAGCGGACTTGGGTGTGGAT
5278	db mining	Hs.327719	AI524013	4438148	tg99e03.x1 cDNA, 3' end /clone=IMAGE:2116924 /clone_end=3'	-1	CCTTCCATCTCATCGGTGGCCTCTCA CTGTGGCTCACTGTTTAACACATG
5279	Table 3A	Hs.252359	AI524022	4438157	tg99f02.x1 cDNA, 3' end /clone=IMAGE:2116923 /clone_end=3'	-1	TGTTCAAGGTCACATAGTTTAGGTAA GAAGCTCAAACCTGAGTTTAGGT
5280	Table 3A	Hs.192524	AI524039	4438174	tg99h02.x1 cDNA, 3' end /clone=IMAGE:2116947 /clone_end=3'	-1	CACCTGATTCCCCCTCTTGCCACAG GACTCTGCTGTTGTTTCATTCTG
5281	db mining	Hs.283459	AI524046	4438181	th01a01.x1 cDNA, 3' end /clone=IMAGE:2116968 /clone_end=3'	-1	TCTCGTGAGGTGATGTGGTGCTGCA GACTTAAGCTATCTGCCTTGAAGAT
5282	db mining	Hs.171119	AI524139	4438274	th09f04.x1 cDNA, 3' end /clone=IMAGE:2117791 /clone_end=3'	-1	AACAAGCCTGGAATAATGCCCCAA GATTGAGTGGAAATCGCCCTTTT
5283	db mining	NA	AI524156	4438291	th09h01.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2117809 3' similar to contains Alu repetitive element; con	-1	CAGGACCAGATGGCCAGGAGGAAG TGGATGCTTCTTGGTAGGGAATGG
5284	Table 3A	Hs.171122	AI524202	4438337	th10d11.x1 cDNA, 3' end /clone=IMAGE:2117877 /clone_end=3'	-1	CCTCCTGCTAGAAGACAGATTCTTC CTTGGCTGACAGGCTGAATTAAGC
5285	db mining	Hs.171123	AI524214	4438349	th11b04.x1 cDNA, 3' end /clone=IMAGE:2117935 /clone_end=3'	-1	AATTTCAAAAAACAAAACAAACAG CAGGTTTCATGGAGCCCGAGTCCA
5286	db mining	Hs.171124	AI524233	4438368	th11d04.x1 cDNA, 3' end /clone=IMAGE:2117959 /clone_end=3'	-1	CCTTTATGCAAGTTGTAAGGGGTTGA CCAGTAAAGAGGAAGTTTGCCCC
5287	Table 3A	Hs.174193	AI524263	4438398	th11g07.x1 cDNA, 3' end /clone=IMAGE:2118012 /clone_end=3'	-1	AGTATTAGCTACAACAAGCCTTGT TCCTCTTGGCTGTGAGGCACTGCT
5288	db mining	Hs.230874	AI524286	4438401	th11g12.x1 cDNA, 3' end /clone=IMAGE:2118022 /clone_end=3'	-1	AAGCCCCAGTAAGGTGTTTCAGGACT GGTAAAGCACTGTCTCAAGTAAGG
5289	Table 3A	Hs.12315	AI524624	4438759	hypothetical protein FLJ11608 (FLJ11608), mRNA /cds=(561,1184)	-1	TGTTTCAGGTAGTAAATGCTTTTGGT CACATCAGAAGCTAGATCTGGGG

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5290	db mining	Hs.327722	AI524626	4438761	td11c03.x1 cDNA, 3' end /clone=IMAGE:2075332 /clone_end=3'	-1	GCCTGGGCTGTTTTGCTATATGTAA ATAAAGCCCTTGGGTCTTTATTTT
5291	db mining	Hs.231512	AI524700	4438835	th12c05.x1 cDNA, 3' end /clone=IMAGE:2118058 /clone_end=3'	-1	GGAGGTTAGGAAGCCCTTTTAAAGTA CAAACCCCGGCATGGGGAATTTT
5292	db mining	Hs.171140	AI524720	4438855	th12e10.x1 cDNA, 3' end /clone=IMAGE:2118090 /clone_end=3'	-1	AACGGGAGTGATCGGGAAGTGAACA GTTTCATCATCTGCTGCTGCTATTC
5293	db mining	Hs.292520	AI524724	4438859	th12f03.x1 cDNA, 3' end /clone=IMAGE:2118077 /clone_end=3'	-1	CTGGTATGTTGCTTTGTAGGGGAAAA ACTAATTTTGTGGGTGAGGGACA
5294	db mining	Hs.283462	AI538419	4452554	td06a02.x1 cDNA, 3' end /clone=IMAGE:2074828 /clone_end=3'	-1	CCGGACAAGCCATTGTATGTTCTAGT TTGCAATTACTCCACGCAAGTGG
5295	db mining	Hs.231292	AI538420	4452555	td06a03.x1 cDNA, 3' end /clone=IMAGE:2074828 /clone_end=3'	-1	TTTGGGCATCAACTTCAACAACACTACT ACCAGGACGCGCTGAGGGTCTTTT
5296	db mining	Hs.171216	AI538445	4452580	td08d02.x1 cDNA, 3' end /clone=IMAGE:2074851 /clone_end=3'	-1	TCGAAGAAAGTACCTGTAATGTAGA GTAATTGCCAAGCTGTCAGGAATA
5297	Table 3A	Hs.203784	AI538474	4452609	td06h08.x1 cDNA, 3' end /clone=IMAGE:2074911 /clone_end=3'	-1	TCCTAGACCCCTGCATTGTGAAATGGG GCTTGAAATTTAGTTCTGAATTTT
5298	Table 3A	Hs.306024	AI538546	4452681	FK508-binding protein 3 (25kD) (FKBP3), mRNA /cds=(23,697)	-1	CTAAAGCAGTGTCTGACCTGGATTG CTGCCAATTTGTAAGCTTTTCATGA
5299	Table 3A	Hs.192534	AI538554	4452689	EST384032 cDNA	-1	GGAGCTGAGCAGGGATGCAAAACCA TCCAGTCTGTAAGATTACAGAGAC
5300	db mining	Hs.171260	AI540044	4457417	td08e06.x1 cDNA, 3' end /clone=IMAGE:2075074 /clone_end=3'	-1	AAACGGTGTGTTGAGCTGCTTTGGGAA AACCCATGTTGCAGATTTTCAGGT
5301	db mining	Hs.283463	AI540109	4457482	7f10e03.x1 cDNA, 3' end /clone=IMAGE:3294268 /clone_end=3'	-1	CAGAGCTGTGTTTCTCAACAAGTGT GCGAGCGGTGCTGTGCGCCATGAG
5302	Table 3A	Hs.171261	AI540125	4457498	MR1-BN0212-280600-001-c06 cDNA	-1	AAATCGCTTCTGTATTGTTAATAGCAA TATATGACCTCTGCTGTCCTCCT
5303	db mining	NA	AI540130	4457503	td09g11.x1 NCI_CGAP_CLL1 cDNA clone IMAGE:2075204 3' similar to gb:X64707 BREAST BASIC CONSERVED PR	-1	GAAAGGATAATTTGCAACCCCTTGCAAT AGTTTCGGTATGGGCGGTGCCAAC
5304	Table 3A	Hs.171264	AI540161	4457534	td10c10.x1 cDNA, 3' end /clone=IMAGE:2075250 /clone_end=3'	-1	CCCTCTTGAAGTCGACTGCCTAAGAA ATGTTGGTTGCATGGAGACATATT
5305	Table 3A	Hs.222186	AI540165	4457538	td10d05.x1 cDNA, 3' end /clone=IMAGE:2075241 /clone_end=3'	-1	TCTGCCTTATTGGCTTGGAGAGAGAA ACCGATAAACACTCCCGTGCTAGT
5306	Table 3A	Hs.170935	AI540204	4457577	MYE6483a cDNA	-1	AAACAGCAGAAAAGTAATTTCTGGTG AACTGATGAGAATTCCTATTGCA
5307	db mining	Hs.327797	AI540784	4458157	tc87e08.x1 cDNA, 3' end /clone=IMAGE:2073158 /clone_end=3'	-1	AGGTTGTTTTGAAAAAATTATTGTTT TGTCCTAAGGGGTCCTGCCACC
5308	db mining	Hs.327798	AI540789	4458162	tc87f03.x1 cDNA, 3' end /clone=IMAGE:2073149 /clone_end=3'	-1	CCTCCGGAACGTTTTTAAAAAGGAAA AAGCCCGGTTTTTCCCTTGGGAAAAA
5309	Table 3A	Hs.170577	AI540813	4458186	602574255F1 cDNA, 5' end /clone=IMAGE:4702644 /clone_end=5'	-1	CAGACCTGTGGGCTGATTCCAGACT GAGAGTTGAAGTTTTGTGTGCATCA
5310	Table 3A	Hs.173182	AI554733	4487098	tn27f08.x1 cDNA, 3' end /clone=IMAGE:2168871 /clone_end=3'	-1	ACCAAGTTGAATTTGTCAAATCCCA AGTCAATCCAGGATGTTCAATTCT
5311	Table 3A	Hs.282963	AI557431	4489794	602583968F1 cDNA, 5' end /clone=IMAGE:4711721 /clone_end=5'	-1	AGTGATCTGCCCTTCAGCAACTGTCT TATTTTGGTCTTTGAAACTGTGA
5312	db mining	Hs.104679	AI559444	4509849	Homo sapiens, clone MGC:18216 IMAGE:4158235, mRNA, complete cds /cds=(2206,2373)	-1	TTTGAATGGCTGAAGCTAAGGCAACG TAGTTTCTCCTTACTCTGCTTTT
5313	db mining	Hs.118392	AI560561	4510902	RST42466 cDNA	-1	ACCTTTGTGATTCTGTCTAGTGAAAA GGGACATTTTTAATAGTGCCAGA
5314	Table 3A	NA	AI560651	4510992	tq80f01.x1 NCI_CGAP_Ut1 cDNA clone IMAGE:2213209 3' similar to gb:M36072 60S RIBOSOMAL PROTEIN L7A	-1	GAACTTGCCCTAAACTGGGTTAAAT GGACCTGTGTGAGTTTCTGGACA
5315	db mining	Hs.327874	AI568374	4531748	th13e03.x1 cDNA, 3' end /clone=IMAGE:2118172 /clone_end=3'	-1	TAAATTGGGCAAGTTTTTATGGAAT TTCCGGGGCAAGGTTTTGGGGGC
5316	Table 3A	Hs.340517	AI568459	4531833	tn39e07.x1 cDNA, 3' end /clone=IMAGE:2170020 /clone_end=3'	-1	AAATCTCATTTGCAAGTTCTCCCATTA AGCAAGGGAGTAGTTTACTAGGA
5317	Table 3A	Hs.143951	AI568622	4531996	tn41e10.x1 cDNA, 3' end /clone=IMAGE:2170218 /clone_end=3'	-1	AAGAAAGGCCCATACAGATGGCAAA ATAGAGGATTGGTGAGGGATATGC